POLYNOMIALS OF KNOTS WITH UP TO 10 CROSSINGS

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Current version: March 13, 2007 First version: July 21, 1997

Abstract. These are tables of polynomials, signatures and the values of the degree-3-Vassiliev invariant of knots with up to 10 crossings.

Contents

1 Instructions how to use the tables

This note gives tables of the Alexander Δ [Al], Conway ∇ [Co], Jones V [J], HOMFLY P [H], Brandt-Lickorish-Millett-Ho Q [BLM, Ho] and Kauffman F [Ka] polynomials, signatures σ [Mu], and degree-3-Vassiliev invariants of knots with up to 10 crossings.

The notation of polynomials is a combination of those of Lickorish and Millett [LM] and Adams [Ad, Appendix].

The one-variable polynomials Δ, ∇, V and Q are specified by their list of coefficients (in increasing powers of the variable), with degrees made clear as follows.

*Supported by 21st Century COE Program.

For the Alexander polynomial, and for Jones polynomials whose absolute term occurs between the minimal and maximal degree, the absolute term is put in brackets. Otherwise, the minimal degree is recorded in braces before the coefficient list. For example, $V(8_{19}) = t^3 + t^5 - t^8$ and $\Delta(5_2) = 2t^{-1} - 3 + 2t$.

For the Conway and Brandt-Lickorish-Millett-Ho polynomials the minimal degree is not indicated, as it is always zero. For the Conway polynomial, odd degree (zero) coefficients are omitted. For example, $\nabla(7_5) = 1 + 4z^2 + 2z^4$.

For the HOMFLY and Kauffman polynomials the parenthesized sequences correspond to the coefficients of $m^0, m^2, \ldots$ and $z^0, z^1, z^2, \ldots$, which are polynomials in l and a resp. (We use the original notations for the variables of [LM] and [Ka].) These one-variable (coefficient) polynomials are denoted in a similar way to the above convention for the Jones and Alexander polynomial, with the following modifications/simplifications.

For the HOMFLY polynomial we omit entries of $l^k m^s$ with one of k, s odd (as they are zero). In particular, the m-coefficient polynomials for s odd are omitted completely. For example,

$$P(7_3) = m^0(l^4 - 2l^6 - 2l^8) + m^2(-3l^4 + 3l^6 + l^8) + m^4(l^4 - l^6),$$

and so we write $(\{4\}\ 1\ -2\ -2)$ for the coefficient of m^0, rather than $(\{4\}\ 1\ 0\ -2\ 0\ -2)$.

For the Kauffman polynomial monomials $a^k z^s$ only for even parity of $k+s$ occur. The other (zero) coefficients are omitted, or for $k = 0$ replaced by an asterisk '$*$' (to make clear the degrees of a). For example,

$$\begin{aligned} F(8_{13}) &= z^0(-a^{-4} - 2a^{-2}) + z^1(2a^{-5} + 4a^{-3} + 3a^{-1} + a) + z^2(5a^{-4} + 7a^{-2} - 2a^2) + \ldots + \\ &\quad + z^6(2a^{-4} + 5a^{-2} + 3) + z^7(a^{-3} + a^{-1}), \end{aligned}$$

and the z-term is written $(\ 2\ 4\ 3\ *\ 1)$ as a shorthand of $(\ 2\ 0\ 4\ 0\ 3\ [0]\ 1)$.

Our convention for the HOMFLY and Kauffman polynomials *differs* from this of [LM, Ka] by interchanging $l \leftrightarrow l^{-1}$ and $a \leftrightarrow a^{-1}$ (so, in their convention, the polynomials refer to the obverse pictures of those, to which our table refers). That is, in our tables the positive (right-hand) trefoil has polynomials which all have non-negative powers of both variables in each monomial.

The normalization is that on the unknot all polynomials are 1.

The skein relations for P and V used here are

$$\begin{aligned} l^{-1} P(\ ) + l P(\ ) + m P(\ ) &= 0, \\ t^{-1} V(\ ) - t V(\ ) + (t^{-1/2} - t^{1/2}) V(\ ) &= 0. \end{aligned}$$

The Kauffman polynomial [Ka] F is usually defined via a regular isotopy invariant $\Lambda(a,z)$ of unoriented links. Λ is given in our convention by the properties

$$\Lambda(\ ) + \Lambda(\ ) = z\,(\Lambda(\ ) + \Lambda(\ )),$$
$$\Lambda(\ ) = a^{-1}\,\Lambda(\,|\,); \quad \Lambda(\ ) = a\,\Lambda(\,|\,),$$
$$\Lambda(\bigcirc) = 1.$$

Then we have the relation $F(D)(a,z) = a^{w(D)} \Lambda(D)(a,z)$, where $w(D)$ is the writhe of a link diagram D.

Thus in our conventions the substitutions are (with $i = \sqrt{-1}$)

$$\begin{aligned} V(t) &= P(-it, i(t^{-1/2} - t^{1/2})) \\ V(t) &= F(-t^{3/4}, t^{1/4} + t^{-1/4}) \\ Q(z) &= F(1,z) = \Lambda(1,z) \\ \nabla(z) &= P(i, iz) \\ \Delta(t) &= \nabla(t^{1/2} - t^{-1/2}) \end{aligned}$$

Then the signature is tabulated in the sign convention that the positive trefoil has signature $\sigma = 2$. (This is the convention of [Ru] and opposite to that of [Mu].) Thus our signature satisfies

$$\sigma(\quad) - \sigma(\quad) \;\in\; \{0,2\} \quad \text{for knots.}$$

Finally, we give the values of the degree-3-Vassiliev invariant v_3 in its asymmetric (changing the sign under mirroring) additive (under connected sum) version, derived from the Jones polynomial:

$$v_3 \;=\; -\frac{1}{12}V^{(2)}(1) - \frac{1}{36}V^{(3)}(1)\,,$$

found (up to constants) via Gauß sums by Fiedler [Fi] and Polyak-Viro [PV]. (The normalization is so that $v_3 = 1$ on the positive trefoil. This is is the convention of Polyak-Viro; Fiedler's normalization differs by a factor of 4.) More generous Vassiliev invariant tables have been made by P. Johnson (unpublished). See also the pictures in [Wi].

Braid indices and representations may be found in [J2]. (Braid indices coincide with the bounds of the Morton-Williams-Franks inequality except for 9_{42}, 9_{49}, 10_{132}, 10_{150} and 10_{156}, for which all the braid index is 4.) Genera are given in [Ga]. (They coincide with $\max\deg\Delta$.)

The notation for knots is this of Rolfsen's book [Ro]. However, some polynomials refer to the obverse pictures of those of Rolfsen. Thus, to refer to Rolfsen's pictures, many polynomials need to be conjugated. (Mirroring interchanges $t \leftrightarrow t^{-1}$ in the Jones polynomial, $l \leftrightarrow l^{-1}$ in the HOMFLY polynomial, and $a \leftrightarrow a^{-1}$ in the Kauffman polynomial.)

The table below indicates, if the data refer to the Rolfsen picture ($+$), its obverse ($-$), or if the knot is achiral ($*$) and distinguishing between both is irrelevant.[1] Note, that for chiral knots, the data determines in most cases which one of both the knot and its obverse is meant – the Kauffman polynomial detects chirality except for 9_{42} and 10_{71}. For 9_{42} the signature does the job. For 10_{71} one can take either of the mirror images – all the invariants tabulated fail to distinguish them. Nonetheless, 10_{71} is chiral (see [HW]).

3_1: $-$	8_9: $*$	9_{10}: $+$	9_{32}: $-$	10_5: $-$	10_{27}: $+$	10_{49}: $-$
4_1: $*$	8_{10}: $-$	9_{11}: $-$	9_{33}: $+$	10_6: $-$	10_{28}: $-$	10_{50}: $+$
5_1: $-$	8_{11}: $-$	9_{12}: $-$	9_{34}: $+$	10_7: $-$	10_{29}: $-$	10_{51}: $-$
5_2: $-$	8_{12}: $*$	9_{13}: $+$	9_{35}: $-$	10_8: $-$	10_{30}: $-$	10_{52}: $+$
6_1: $-$	8_{13}: $-$	9_{14}: $-$	9_{36}: $-$	10_9: $+$	10_{31}: $-$	10_{53}: $-$
6_2: $-$	8_{14}: $-$	9_{15}: $-$	9_{37}: $-$	10_{10}: $-$	10_{32}: $-$	10_{54}: $-$
6_3: $*$	8_{15}: $-$	9_{16}: $+$	9_{38}: $-$	10_{11}: $-$	10_{33}: $*$	10_{55}: $-$
7_1: $-$	8_{16}: $+$	9_{17}: $-$	9_{39}: $-$	10_{12}: $-$	10_{34}: $-$	10_{56}: $+$
7_2: $-$	8_{17}: $*$	9_{18}: $-$	9_{40}: $-$	10_{13}: $-$	10_{35}: $-$	10_{57}: $-$
7_3: $+$	8_{18}: $*$	9_{19}: $-$	9_{41}: $+$	10_{14}: $-$	10_{36}: $-$	10_{58}: $-$
7_4: $+$	8_{19}: $+$	9_{20}: $-$	9_{42}: $-$	10_{15}: $-$	10_{37}: $*$	10_{59}: $+$
7_5: $-$	8_{20}: $+$	9_{21}: $-$	9_{43}: $+$	10_{16}: $+$	10_{38}: $-$	10_{60}: $+$
7_6: $-$	8_{21}: $-$	9_{22}: $+$	9_{44}: $-$	10_{17}: $*$	10_{39}: $-$	10_{61}: $+$
7_7: $-$	9_1: $-$	9_{23}: $-$	9_{45}: $+$	10_{18}: $-$	10_{40}: $-$	10_{62}: $-$
8_1: $-$	9_2: $-$	9_{24}: $-$	9_{46}: $+$	10_{19}: $-$	10_{41}: $-$	10_{63}: $-$
8_2: $-$	9_3: $+$	9_{25}: $-$	9_{47}: $+$	10_{20}: $-$	10_{42}: $-$	10_{64}: $+$
8_3: $*$	9_4: $-$	9_{26}: $-$	9_{48}: $-$	10_{21}: $-$	10_{43}: $*$	10_{65}: $-$
8_4: $+$	9_5: $+$	9_{27}: $-$	9_{49}: $+$	10_{22}: $+$	10_{44}: $-$	10_{66}: $-$
8_5: $+$	9_6: $-$	9_{28}: $-$	10_1: $-$	10_{23}: $-$	10_{45}: $*$	10_{67}: $-$
8_6: $-$	9_7: $-$	9_{29}: $+$	10_2: $-$	10_{24}: $-$	10_{46}: $+$	10_{68}: $+$
8_7: $-$	9_8: $-$	9_{30}: $+$	10_3: $-$	10_{25}: $-$	10_{47}: $-$	10_{69}: $-$
8_8: $-$	9_9: $-$	9_{31}: $-$	10_4: $-$	10_{26}: $+$	10_{48}: $+$	10_{70}: $-$

[1] I can't be absolutely sure the table is error-free, until it is checked independently.

10_{71}: $\pm$	10_{85}: $+$	10_{99}: $*$	10_{113}: $+$	10_{127}: $-$	10_{141}: $-$	10_{155}: $-$
10_{72}: $+$	10_{86}: $+$	10_{100}: $+$	10_{114}: $+$	10_{128}: $+$	10_{142}: $+$	10_{156}: $+$
10_{73}: $+$	10_{87}: $+$	10_{101}: $+$	10_{115}: $*$	10_{129}: $-$	10_{143}: $+$	10_{157}: $-$
10_{74}: $-$	10_{88}: $*$	10_{102}: $+$	10_{116}: $+$	10_{130}: $+$	10_{144}: $-$	10_{158}: $+$
10_{75}: $-$	10_{89}: $+$	10_{103}: $+$	10_{117}: $-$	10_{131}: $-$	10_{145}: $+$	10_{159}: $-$
10_{76}: $+$	10_{90}: $+$	10_{104}: $+$	10_{118}: $*$	10_{132}: $+$	10_{146}: $+$	10_{160}: $+$
10_{77}: $-$	10_{91}: $+$	10_{105}: $+$	10_{119}: $-$	10_{133}: $-$	10_{147}: $+$	10_{161}: $-$
10_{78}: $-$	10_{92}: $+$	10_{106}: $+$	10_{120}: $-$	10_{134}: $+$	10_{148}: $+$	10_{162}: $+$
10_{79}: $*$	10_{93}: $+$	10_{107}: $-$	10_{121}: $-$	10_{135}: $-$	10_{149}: $-$	10_{163}: $+$
10_{80}: $-$	10_{94}: $+$	10_{108}: $+$	10_{122}: $-$	10_{136}: $-$	10_{150}: $+$	10_{164}: $+$
10_{81}: $*$	10_{95}: $-$	10_{109}: $*$	10_{123}: $*$	10_{137}: $-$	10_{151}: $-$	10_{165}: $-$
10_{82}: $-$	10_{96}: $-$	10_{110}: $-$	10_{124}: $+$	10_{138}: $+$	10_{152}: $-$	
10_{83}: $-$	10_{97}: $+$	10_{111}: $+$	10_{125}: $-$	10_{139}: $+$	10_{153}: $+$	
10_{84}: $+$	10_{98}: $-$	10_{112}: $+$	10_{126}: $+$	10_{140}: $-$	10_{154}: $+$	

The tables are adapted from Hoste's and Thistlethwaite's KnotScape [HT] (which was also used to compute the polynomials), so if you like to get mirroring fixed, please contact them. Also, Rolfsen's $10_{163}\dots 10_{166}$ have been renumbered, as in the tables of [BZ], to avoid the Perko duplication $10_{161} = !10_{162}$. Thus, for example, Rolfsen's 10_{165} is 10_{164} here. The '$-$' for 10_{161} in the above table indicates that we refer to Rolfsen's $!10_{161} = 10_{162}$.

Note, however, that KnotScape uses a *different* numbering convention for the knots! This was the origin of some confusion in using Thistlethwaite's program and tables. Now Thistlethwaite provides a dictionary between KnotScape and Rolfsen notation, but does not specify between a knot and its obverse. This bug I fixed, as best as I could, with the above listing. For ≤ 9 crossings I used the table of [LM]. (Note that, by comparing conventions, our HOMFLY polynomials coincide for chiral knots with those of [LM] iff the entry in the above table is '$-$'.) For 10 crossings I used various methods. In some cases $(10_{48}, 10_{91}, 10_{104}, 10_{146}, 10_{164})$ I relied on KnotScape computing the polynomials of the knot mirrored as it draws it (and not obversely).

A further mistake in Rolfsen's tables is that therein 10_{83} and 10_{86} are swopped: the Conway notation and Alexander polynomial for each one refers to the diagram of the other. In Thistlethwaite's dictionary the convention is adopted that the diagrams are swopped to fix the mistake, as in the table of [Kw], whereas ours is that the Conway notations and Alexander polynomials are done so, as in [Ha]. Thus our 10_{83} is what is drawn in Rolfsen's book under 10_{83}, and not what is denoted there in Conway form as 10_{83}.

If you like me to include pictures or have any other wishes/comments, please, let me know. Beside in [Ro], pictures may be found on the KnotInfo webpage [CL] of Livingston and Cha, or in D. Bar-Natan's Knot Atlas [BN].

Acknowledgement. I would wish to thank to Sergei Duzhin and Thomas Fiedler for their remarks on the organization and explanation of the tables.

2 Alexander polynomials

3_1: 1 [−1] 1
4_1: −1 [3] −1
5_1: 1 −1 [1] −1 1
5_2: 2 [−3] 2
6_1: −2 [5] −2
6_2: −1 3 [−3] 3 −1
6_3: 1 −3 [5] −3 1
7_1: 1 −1 1 [−1] 1 −1 1
7_2: 3 [−5] 3
7_3: 2 −3 [3] −3 2
7_4: 4 [−7] 4
7_5: 2 −4 [5] −4 2
7_6: −1 5 [−7] 5 −1
7_7: 1 −5 [9] −5 1
8_1: −3 [7] −3
8_2: −1 3 −3 [3] −3 3 −1
8_3: −4 [9] −4
8_4: −2 5 [−5] 5 −2
8_5: −1 3 −4 [5] −4 3 −1
8_6: −2 6 [−7] 6 −2
8_7: 1 −3 5 [−5] 5 −3 1
8_8: 2 −6 [9] −6 2
8_9: −1 3 −5 [7] −5 3 −1
8_{10}: 1 −3 6 [−7] 6 −3 1
8_{11}: −2 7 [−9] 7 −2
8_{12}: 1 −7 [13] −7 1
8_{13}: 2 −7 [11] −7 2
8_{14}: −2 8 [−11] 8 −2
8_{15}: 3 −8 [11] −8 3
8_{16}: 1 −4 8 [−9] 8 −4 1
8_{17}: −1 4 −8 [11] −8 4 −1
8_{18}: −1 5 −10 [13] −10 5 −1
8_{19}: 1 −1 0 [1] 0 −1 1
8_{20}: 1 −2 [3] −2 1
8_{21}: −1 4 [−5] 4 −1
9_1: 1 −1 1 −1 [1] −1 1 −1 1
9_2: 4 [−7] 4
9_3: 2 −3 3 [−3] 3 −3 2
9_4: 3 −5 [5] −5 3
9_5: 6 [−11] 6
9_6: 2 −4 5 [−5] 5 −4 2
9_7: 3 −7 [9] −7 3
9_8: −2 8 [−11] 8 −2
9_9: 2 −4 6 [−7] 6 −4 2
9_{10}: 4 −8 [9] −8 4
9_{11}: −1 5 −7 [7] −7 5 −1
9_{12}: −2 9 [−13] 9 −2
9_{13}: 4 −9 [11] −9 4
9_{14}: 2 −9 [15] −9 2
9_{15}: −2 10 [−15] 10 −2
9_{16}: 2 −5 8 [−9] 8 −5 2
9_{17}: 1 −5 9 [−9] 9 −5 1
9_{18}: 4 −10 [13] −10 4
9_{19}: 2 −10 [17] −10 2
9_{20}: −1 5 −9 [11] −9 5 −1
9_{21}: −2 11 [−17] 11 −2
9_{22}: 1 −5 10 [−11] 10 −5 1
9_{23}: 4 −11 [15] −11 4
9_{24}: −1 5 −10 [13] −10 5 −1
9_{25}: −3 12 [−17] 12 −3
9_{26}: 1 −5 11 [−13] 11 −5 1
9_{27}: −1 5 −11 [15] −11 5 −1
9_{28}: 1 −5 12 [−15] 12 −5 1
9_{29}: 1 −5 12 [−15] 12 −5 1
9_{30}: −1 5 −12 [17] −12 5 −1
9_{31}: 1 −5 13 [−17] 13 −5 1
9_{32}: 1 −6 14 [−17] 14 −6 1
9_{33}: −1 6 −14 [19] −14 6 −1
9_{34}: −1 6 −16 [23] −16 6 −1
9_{35}: 7 [−13] 7
9_{36}: −1 5 −8 [9] −8 5 −1
9_{37}: 2 −11 [19] −11 2
9_{38}: 5 −14 [19] −14 5
9_{39}: −3 14 [−21] 14 −3
9_{40}: 1 −7 18 [−23] 18 −7 1
9_{41}: 3 −12 [19] −12 3
9_{42}: −1 2 [−1] 2 −1
9_{43}: −1 3 −2 [1] −2 3 −1
9_{44}: 1 −4 [7] −4 1
9_{45}: −1 6 [−9] 6 −1
9_{46}: −2 [5] −2
9_{47}: 1 −4 6 [−5] 6 −4 1
9_{48}: −1 7 [−11] 7 −1
9_{49}: 3 −6 [7] −6 3
10_1: −4 [9] −4
10_2: −1 3 −3 3 [−3] 3 −3 3 −1
10_3: −6 [13] −6
10_4: −3 7 [−7] 7 −3
10_5: 1 −3 5 −5 [5] −5 5 −3 1
10_6: −2 6 −7 [7] −7 6 −2
10_7: −3 11 [−15] 11 −3
10_8: −2 5 −5 [5] −5 5 −2
10_9: −1 3 −5 7 [−7] 7 −5 3 −1
10_{10}: 3 −11 [17] −11 3
10_{11}: −4 11 [−13] 11 −4
10_{12}: 2 −6 10 [−11] 10 −6 2
10_{13}: 2 −13 [23] −13 2
10_{14}: −2 8 −12 [13] −12 8 −2
10_{15}: 2 −6 9 [−9] 9 −6 2
10_{16}: −4 12 [−15] 12 −4
10_{17}: 1 −3 5 −7 [9] −7 5 −3 1
10_{18}: −4 14 [−19] 14 −4

10_{19}: 2 −7 11 [−11] 11 −7 2
10_{20}: −3 9 [−11] 9 −3
10_{21}: −2 7 −9 [9] −9 7 −2
10_{22}: −2 6 −10 [13] −10 6 −2
10_{23}: 2 −7 13 [−15] 13 −7 2
10_{24}: −4 14 [−19] 14 −4
10_{25}: −2 8 −14 [17] −14 8 −2
10_{26}: −2 7 −13 [17] −13 7 −2
10_{27}: 2 −8 16 [−19] 16 −8 2
10_{28}: 4 −13 [19] −13 4
10_{29}: 1 −7 15 [−17] 15 −7 1
10_{30}: −4 17 [−25] 17 −4
10_{31}: 4 −14 [21] −14 4
10_{32}: −2 8 −15 [19] −15 8 −2
10_{33}: 4 −16 [25] −16 4
10_{34}: 3 −9 [13] −9 3
10_{35}: 2 −12 [21] −12 2
10_{36}: −3 13 [−19] 13 −3
10_{37}: 4 −13 [19] −13 4
10_{38}: −4 15 [−21] 15 −4
10_{39}: −2 8 −13 [15] −13 8 −2
10_{40}: 2 −8 17 [−21] 17 −8 2
10_{41}: 1 −7 17 [−21] 17 −7 1
10_{42}: −1 7 −19 [27] −19 7 −1
10_{43}: −1 7 −17 [23] −17 7 −1
10_{44}: 1 −7 19 [−25] 19 −7 1
10_{45}: −1 7 −21 [31] −21 7 −1
10_{46}: −1 3 −4 5 [−5] 5 −4 3 −1
10_{47}: 1 −3 6 −7 [7] −7 6 −3 1
10_{48}: 1 −3 6 −9 [11] −9 6 −3 1
10_{49}: 3 −8 12 [−13] 12 −8 3
10_{50}: −2 7 −11 [13] −11 7 −2
10_{51}: 2 −7 15 [−19] 15 −7 2
10_{52}: 2 −7 13 [−15] 13 −7 2
10_{53}: 6 −18 [25] −18 6
10_{54}: 2 −6 10 [−11] 10 −6 2
10_{55}: 5 −15 [21] −15 5
10_{56}: −2 8 −14 [17] −14 8 −2
10_{57}: 2 −8 18 [−23] 18 −8 2
10_{58}: 3 −16 [27] −16 3
10_{59}: 1 −7 18 [−23] 18 −7 1
10_{60}: −1 7 −20 [29] −20 7 −1
10_{61}: −2 5 −6 [7] −6 5 −2
10_{62}: 1 −3 6 −8 [9] −8 6 −3 1
10_{63}: 5 −14 [19] −14 5
10_{64}: −1 3 −6 10 [−11] 10 −6 3 −1
10_{65}: 2 −7 14 [−17] 14 −7 2
10_{66}: 3 −9 16 [−19] 16 −9 3
10_{67}: −4 16 [−23] 16 −4
10_{68}: 4 −14 [21] −14 4
10_{69}: 1 −7 21 [−29] 21 −7 1
10_{70}: 1 −7 16 [−19] 16 −7 1
10_{71}: −1 7 −18 [25] −18 7 −1
10_{72}: −2 9 −16 [19] −16 9 −2
10_{73}: 1 −7 20 [−27] 20 −7 1
10_{74}: −4 16 [−23] 16 −4
10_{75}: −1 7 −19 [27] −19 7 −1
10_{76}: −2 7 −12 [15] −12 7 −2
10_{77}: 2 −7 14 [−17] 14 −7 2
10_{78}: −1 7 −16 [21] −16 7 −1
10_{79}: 1 −3 7 −12 [15] −12 7 −3 1
10_{80}: 3 −9 15 [−17] 15 −9 3
10_{81}: −1 8 −20 [27] −20 8 −1
10_{82}: −1 4 −8 12 [−13] 12 −8 4 −1
10_{83}: 2 −9 19 [−23] 19 −9 2
10_{84}: 2 −9 20 [−25] 20 −9 2
10_{85}: 1 −4 8 −10 [11] −10 8 −4 1
10_{86}: −2 9 −19 [25] −19 9 −2
10_{87}: −2 9 −18 [23] −18 9 −2
10_{88}: −1 8 −24 [35] −24 8 −1
10_{89}: 1 −8 24 [−33] 24 −8 1
10_{90}: −2 8 −17 [23] −17 8 −2
10_{91}: 1 −4 9 −14 [17] −14 9 −4 1
10_{92}: −2 10 −20 [25] −20 10 −2
10_{93}: 2 −8 15 [−17] 15 −8 2
10_{94}: −1 4 −9 14 [−15] 14 −9 4 −1
10_{95}: 2 −9 21 [−27] 21 −9 2
10_{96}: −1 7 −22 [33] −22 7 −1
10_{97}: −5 22 [−33] 22 −5
10_{98}: −2 9 −18 [23] −18 9 −2
10_{99}: 1 −4 10 −16 [19] −16 10 −4 1
10_{100}: 1 −4 9 −12 [13] −12 9 −4 1
10_{101}: 7 −21 [29] −21 7
10_{102}: −2 8 −16 [21] −16 8 −2
10_{103}: 2 −8 17 [−21] 17 −8 2
10_{104}: 1 −4 9 −15 [19] −15 9 −4 1
10_{105}: 1 −8 22 [−29] 22 −8 1
10_{106}: −1 4 −9 15 [−17] 15 −9 4 −1
10_{107}: −1 8 −22 [31] −22 8 −1
10_{108}: 2 −8 14 [−15] 14 −8 2
10_{109}: 1 −4 10 −17 [21] −17 10 −4 1
10_{110}: 1 −8 20 [−25] 20 −8 1
10_{111}: −2 9 −17 [21] −17 9 −2
10_{112}: −1 5 −11 17 [−19] 17 −11 5 −1
10_{113}: 2 −11 26 [−33] 26 −11 2
10_{114}: −2 10 −21 [27] −21 10 −2
10_{115}: −1 9 −26 [37] −26 9 −1
10_{116}: −1 5 −12 19 [−21] 19 −12 5 −1
10_{117}: 2 −10 24 [−31] 24 −10 2
10_{118}: 1 −5 12 −19 [23] −19 12 −5 1
10_{119}: −2 10 −23 [31] −23 10 −2
10_{120}: 8 −26 [37] −26 8
10_{121}: 2 −11 27 [−35] 27 −11 2
10_{122}: −2 11 −24 [31] −24 11 −2
10_{123}: 1 −6 15 −24 [29] −24 15 −6 1
10_{124}: 1 −1 0 1 [−1] 1 0 −1 1
10_{125}: 1 −2 2 [−1] 2 −2 1
10_{126}: 1 −2 4 [−5] 4 −2 1

10_{127}: $-1\ 4\ -6\ [7]\ -6\ 4\ -1$
10_{128}: $2\ -3\ 1\ [1]\ 1\ -3\ 2$
10_{129}: $2\ -6\ [9]\ -6\ 2$
10_{130}: $2\ -4\ [5]\ -4\ 2$
10_{131}: $-2\ 8\ [-11]\ 8\ -2$
10_{132}: $1\ -1\ [1]\ -1\ 1$
10_{133}: $-1\ 5\ [-7]\ 5\ -1$
10_{134}: $2\ -4\ 4\ [-3]\ 4\ -4\ 2$
10_{135}: $3\ -9\ [13]\ -9\ 3$
10_{136}: $-1\ 4\ [-5]\ 4\ -1$
10_{137}: $1\ -6\ [11]\ -6\ 1$
10_{138}: $1\ -5\ 8\ [-7]\ 8\ -5\ 1$
10_{139}: $1\ -1\ 0\ 2\ [-3]\ 2\ 0\ -1\ 1$
10_{140}: $1\ -2\ [3]\ -2\ 1$
10_{141}: $-1\ 3\ -4\ [5]\ -4\ 3\ -1$
10_{142}: $2\ -3\ 2\ [-1]\ 2\ -3\ 2$
10_{143}: $1\ -3\ 6\ [-7]\ 6\ -3\ 1$
10_{144}: $-3\ 10\ [-13]\ 10\ -3$
10_{145}: $1\ 1\ [-3]\ 1\ 1$
10_{146}: $2\ -8\ [13]\ -8\ 2$
10_{147}: $-2\ 7\ [-9]\ 7\ -2$
10_{148}: $1\ -3\ 7\ [-9]\ 7\ -3\ 1$
10_{149}: $-1\ 5\ -9\ [11]\ -9\ 5\ -1$
10_{150}: $-1\ 4\ -6\ [7]\ -6\ 4\ -1$
10_{151}: $1\ -4\ 10\ [-13]\ 10\ -4\ 1$
10_{152}: $1\ -1\ -1\ 4\ [-5]\ 4\ -1\ -1\ 1$
10_{153}: $1\ -1\ -1\ [3]\ -1\ -1\ 1$
10_{154}: $1\ 0\ -4\ [7]\ -4\ 0\ 1$
10_{155}: $-1\ 3\ -5\ [7]\ -5\ 3\ -1$
10_{156}: $1\ -4\ 8\ [-9]\ 8\ -4\ 1$
10_{157}: $-1\ 6\ -11\ [13]\ -11\ 6\ -1$
10_{158}: $-1\ 4\ -10\ [15]\ -10\ 4\ -1$
10_{159}: $1\ -4\ 9\ [-11]\ 9\ -4\ 1$
10_{160}: $-1\ 4\ -4\ [3]\ -4\ 4\ -1$
10_{161}: $1\ 0\ -2\ [3]\ -2\ 0\ 1$
10_{162}: $-3\ 9\ [-11]\ 9\ -3$
10_{163}: $1\ -5\ 12\ [-15]\ 12\ -5\ 1$
10_{164}: $3\ -11\ [17]\ -11\ 3$
10_{165}: $-2\ 10\ [-15]\ 10\ -2$

3 Conway polynomials

3_1: $1\ 1$
4_1: $1\ -1$
5_1: $1\ 3\ 1$
5_2: $1\ 2$
6_1: $1\ -2$
6_2: $1\ -1\ -1$
6_3: $1\ 1\ 1$
7_1: $1\ 6\ 5\ 1$
7_2: $1\ 3$
7_3: $1\ 5\ 2$
7_4: $1\ 4$
7_5: $1\ 4\ 2$
7_6: $1\ 1\ -1$
7_7: $1\ -1\ 1$
8_1: $1\ -3$
8_2: $1\ 0\ -3\ -1$
8_3: $1\ -4$
8_4: $1\ -3\ -2$
8_5: $1\ -1\ -3\ -1$
8_6: $1\ -2\ -2$
8_7: $1\ 2\ 3\ 1$
8_8: $1\ 2\ 2$
8_9: $1\ -2\ -3\ -1$
8_{10}: $1\ 3\ 3\ 1$
8_{11}: $1\ -1\ -2$
8_{12}: $1\ -3\ 1$
8_{13}: $1\ 1\ 2$
8_{14}: $1\ 0\ -2$
8_{15}: $1\ 4\ 3$
8_{16}: $1\ 1\ 2\ 1$
8_{17}: $1\ -1\ -2\ -1$
8_{18}: $1\ 1\ -1\ -1$
8_{19}: $1\ 5\ 5\ 1$
8_{20}: $1\ 2\ 1$
8_{21}: $1\ 0\ -1$
9_1: $1\ 10\ 15\ 7\ 1$
9_2: $1\ 4$
9_3: $1\ 9\ 9\ 2$
9_4: $1\ 7\ 3$
9_5: $1\ 6$
9_6: $1\ 7\ 8\ 2$
9_7: $1\ 5\ 3$
9_8: $1\ 0\ -2$
9_9: $1\ 8\ 8\ 2$
9_{10}: $1\ 8\ 4$
9_{11}: $1\ 4\ -1\ -1$
9_{12}: $1\ 1\ -2$
9_{13}: $1\ 7\ 4$
9_{14}: $1\ -1\ 2$
9_{15}: $1\ 2\ -2$
9_{16}: $1\ 6\ 7\ 2$
9_{17}: $1\ -2\ 1\ 1$
9_{18}: $1\ 6\ 4$
9_{19}: $1\ -2\ 2$
9_{20}: $1\ 2\ -1\ -1$
9_{21}: $1\ 3\ -2$
9_{22}: $1\ -1\ 1\ 1$
9_{23}: $1\ 5\ 4$
9_{24}: $1\ 1\ -1\ -1$
9_{25}: $1\ 0\ -3$
9_{26}: $1\ 0\ 1\ 1$
9_{27}: $1\ 0\ -1\ -1$
9_{28}: $1\ 1\ 1\ 1$
9_{29}: $1\ 1\ 1\ 1$
9_{30}: $1\ -1\ -1\ -1$
9_{31}: $1\ 2\ 1\ 1$
9_{32}: $1\ -1\ 0\ 1$
9_{33}: $1\ 1\ 0\ -1$
9_{34}: $1\ -1\ 0\ -1$
9_{35}: $1\ 7$
9_{36}: $1\ 3\ -1\ -1$
9_{37}: $1\ -3\ 2$
9_{38}: $1\ 6\ 5$
9_{39}: $1\ 2\ -3$
9_{40}: $1\ -1\ -1\ 1$
9_{41}: $1\ 0\ 3$
9_{42}: $1\ -2\ -1$
9_{43}: $1\ 1\ -3\ -1$
9_{44}: $1\ 0\ 1$
9_{45}: $1\ 2\ -1$
9_{46}: $1\ -2$
9_{47}: $1\ -1\ 2\ 1$
9_{48}: $1\ 3\ -1$
9_{49}: $1\ 6\ 3$
10_1: $1\ -4$
10_2: $1\ 2\ -5\ -5\ -1$
10_3: $1\ -6$

10_4: 1 −5 −3
10_5: 1 4 7 5 1
10_6: 1 −1 −6 −2
10_7: 1 −1 −3
10_8: 1 −3 −7 −2
10_9: 1 −2 −7 −5 −1
10_{10}: 1 1 3
10_{11}: 1 −5 −4
10_{12}: 1 4 6 2
10_{13}: 1 −5 2
10_{14}: 1 2 −4 −2
10_{15}: 1 3 6 2
10_{16}: 1 −4 −4
10_{17}: 1 2 7 5 1
10_{18}: 1 −2 −4
10_{19}: 1 1 5 2
10_{20}: 1 −3 −3
10_{21}: 1 1 −5 −2
10_{22}: 1 −4 −6 −2
10_{23}: 1 3 5 2
10_{24}: 1 −2 −4
10_{25}: 1 0 −4 −2
10_{26}: 1 −3 −5 −2
10_{27}: 1 2 4 2
10_{28}: 1 3 4
10_{29}: 1 −4 −1 1
10_{30}: 1 1 −4
10_{31}: 1 2 4
10_{32}: 1 −1 −4 −2
10_{33}: 1 0 4
10_{34}: 1 3 3
10_{35}: 1 −4 2
10_{36}: 1 1 −3
10_{37}: 1 3 4
10_{38}: 1 −1 −4
10_{39}: 1 1 −4 −2
10_{40}: 1 3 4 2
10_{41}: 1 −2 −1 1
10_{42}: 1 0 1 −1
10_{43}: 1 2 1 −1
10_{44}: 1 0 −1 1
10_{45}: 1 −2 1 −1
10_{46}: 1 0 −6 −5 −1
10_{47}: 1 6 8 5 1
10_{48}: 1 4 8 5 1
10_{49}: 1 7 10 3
10_{50}: 1 −1 −5 −2
10_{51}: 1 5 5 2
10_{52}: 1 3 5 2
10_{53}: 1 6 6
10_{54}: 1 4 6 2
10_{55}: 1 5 5
10_{56}: 1 0 −4 −2
10_{57}: 1 4 4 2
10_{58}: 1 −4 3
10_{59}: 1 −1 −1 1
10_{60}: 1 −1 1 −1
10_{61}: 1 −4 −7 −2
10_{62}: 1 5 8 5 1
10_{63}: 1 6 5
10_{64}: 1 −3 −8 −5 −1
10_{65}: 1 4 5 2
10_{66}: 1 7 9 3
10_{67}: 1 0 −4
10_{68}: 1 2 4
10_{69}: 1 2 −1 1
10_{70}: 1 −3 −1 1
10_{71}: 1 1 1 −1
10_{72}: 1 2 −3 −2
10_{73}: 1 1 −1 1
10_{74}: 1 0 −4
10_{75}: 1 0 1 −1
10_{76}: 1 −2 −5 −2
10_{77}: 1 4 5 2
10_{78}: 1 3 1 −1
10_{79}: 1 5 9 5 1
10_{80}: 1 6 9 3
10_{81}: 1 3 2 −1
10_{82}: 1 0 −4 −4 −1
10_{83}: 1 1 3 2
10_{84}: 1 2 3 2
10_{85}: 1 2 4 4 1
10_{86}: 1 −1 −3 −2
10_{87}: 1 0 −3 −2
10_{88}: 1 −1 2 −1
10_{89}: 1 1 −2 1
10_{90}: 1 −3 −4 −2
10_{91}: 1 2 5 4 1
10_{92}: 1 2 −2 −2
10_{93}: 1 1 4 2
10_{94}: 1 −2 −5 −4 −1
10_{95}: 1 3 3 2
10_{96}: 1 −3 1 −1
10_{97}: 1 2 −5
10_{98}: 1 0 −3 −2
10_{99}: 1 4 6 4 1
10_{100}: 1 4 5 4 1
10_{101}: 1 7 7
10_{102}: 1 −2 −4 −2
10_{103}: 1 3 4 2
10_{104}: 1 1 5 4 1
10_{105}: 1 −1 −2 1
10_{106}: 1 −1 −5 −4 −1
10_{107}: 1 1 2 −1
10_{108}: 1 0 4 2
10_{109}: 1 3 6 4 1
10_{110}: 1 −3 −2 1
10_{111}: 1 1 −3 −2
10_{112}: 1 2 −1 −3 −1
10_{113}: 1 0 1 2
10_{114}: 1 1 −2 −2
10_{115}: 1 1 3 −1
10_{116}: 1 0 −2 −3 −1
10_{117}: 1 2 2 2
10_{118}: 1 0 2 3 1
10_{119}: 1 −1 −2 −2
10_{120}: 1 6 8
10_{121}: 1 1 1 2
10_{122}: 1 2 −1 −2
10_{123}: 1 −2 −1 2 1
10_{124}: 1 8 14 7 1
10_{125}: 1 3 4 1
10_{126}: 1 5 4 1
10_{127}: 1 1 −2 −1
10_{128}: 1 7 9 2
10_{129}: 1 2 2
10_{130}: 1 4 2
10_{131}: 1 0 −2
10_{132}: 1 3 1
10_{133}: 1 1 −1
10_{134}: 1 6 8 2
10_{135}: 1 3 3
10_{136}: 1 0 −1
10_{137}: 1 −2 1
10_{138}: 1 −3 1 1
10_{139}: 1 9 14 7 1
10_{140}: 1 2 1
10_{141}: 1 −1 −3 −1
10_{142}: 1 8 9 2
10_{143}: 1 3 3 1
10_{144}: 1 −2 −3
10_{145}: 1 5 1
10_{146}: 1 0 2
10_{147}: 1 −1 −2
10_{148}: 1 4 3 1
10_{149}: 1 2 −1 −1
10_{150}: 1 1 −2 −1
10_{151}: 1 3 2 1
10_{152}: 1 7 13 7 1
10_{153}: 1 4 5 1
10_{154}: 1 5 6 1
10_{155}: 1 −2 −3 −1
10_{156}: 1 1 2 1
10_{157}: 1 4 0 −1
10_{158}: 1 −3 −2 −1
10_{159}: 1 2 2 1
10_{160}: 1 3 −2 −1
10_{161}: 1 7 6 1
10_{162}: 1 −3 −3
10_{163}: 1 1 1 1
10_{164}: 1 1 3
10_{165}: 1 2 −2

4 Jones polynomials

3_1: {1} 1 0 1 −1
4_1: 1 −1 [1] −1 1
5_1: {2} 1 0 1 −1 1 −1
5_2: {1} 1 −1 2 −1 1 −1
6_1: 1 −1 [2] −2 1 −1 1
6_2: 1 [−1] 2 −2 2 −2 1
6_3: −1 2 −2 [3] −2 2 −1
7_1: {3} 1 0 1 −1 1 −1 1 −1
7_2: {1} 1 −1 2 −2 2 −1 1 −1
7_3: {2} 1 −1 2 −2 3 −2 1 −1
7_4: {1} 1 −2 3 −2 3 −2 1 −1
7_5: {2} 1 −1 3 −3 3 −3 2 −1
7_6: 1 [−2] 3 −3 4 −3 2 −1
7_7: 1 −2 3 −4 [4] −3 3 −1
8_1: 1 −1 [2] −2 2 −2 1 −1 1
8_2: [1] −1 2 −2 3 −3 2 −2 1
8_3: 1 −1 2 −3 [3] −3 2 −1 1
8_4: 1 −2 3 −3 3 [−3] 2 −1 1
8_5: [1] −1 3 −3 3 −4 3 −2 1
8_6: 1 [−1] 3 −4 4 −4 3 −2 1
8_7: −1 2 −3 4 −4 4 [−2] 2 −1
8_8: −1 2 −3 4 −4 [5] −3 2 −1
8_9: 1 −2 3 −4 [5] −4 3 −2 1
8_{10}: −1 2 −4 5 −4 5 [−3] 2 −1
8_{11}: 1 [−2] 4 −4 5 −5 3 −2 1
8_{12}: 1 −2 4 −5 [5] −5 4 −2 1
8_{13}: −1 2 −3 5 −5 [5] −4 3 −1
8_{14}: 1 [−2] 4 −5 6 −5 4 −3 1
8_{15}: {2} 1 −2 5 −5 6 −6 4 −3 1
8_{16}: −1 3 −5 6 −6 6 [−4] 3 −1
8_{17}: 1 −3 5 −6 [7] −6 5 −3 1
8_{18}: 1 −4 6 −7 [9] −7 6 −4 1
8_{19}: {3} 1 0 1 0 0 −1
8_{20}: −1 1 −1 2 −1 [2] −1
8_{21}: {1} 2 −2 3 −3 2 −2 1
9_1: {4} 1 0 1 −1 1 −1 1 −1 1 −1
9_2: {1} 1 −1 2 −2 2 −2 2 −1 1 −1
9_3: {3} 1 −1 2 −2 3 −3 3 −2 1 −1
9_4: {2} 1 −1 2 −3 4 −3 3 −2 1 −1
9_5: {1} 1 −2 3 −3 4 −3 3 −2 1 −1
9_6: {3} 1 −1 3 −3 4 −5 4 −3 2 −1
9_7: {2} 1 −1 3 −4 5 −5 4 −3 2 −1
9_8: 1 −2 3 [−4] 5 −5 5 −3 2 −1
9_9: {3} 1 −1 3 −4 5 −5 5 −4 2 −1
9_{10}: {2} 1 −2 4 −5 6 −5 5 −3 1 −1
9_{11}: −1 2 −4 5 −5 6 −4 3 −2 [1]
9_{12}: 1 [−2] 4 −5 6 −6 5 −3 2 −1
9_{13}: {2} 1 −2 4 −5 7 −6 5 −4 2 −1
9_{14}: 1 −2 3 −5 6 −6 [6] −4 3 −1
9_{15}: −1 2 −4 6 −6 7 −6 4 [−2] 1
9_{16}: {3} 1 −1 4 −5 6 −7 6 −5 3 −1
9_{17}: 1 −2 4 [−5] 6 −7 6 −4 3 −1
9_{18}: {2} 1 −2 5 −6 7 −7 6 −4 2 −1
9_{19}: 1 −2 4 −6 [7] −7 6 −4 3 −1
9_{20}: [1] −2 4 −5 7 −7 6 −5 3 −1
9_{21}: −1 2 −4 6 −7 8 −6 5 [−3] 1
9_{22}: 1 −2 4 [−6] 7 −7 7 −5 3 −1
9_{23}: {2} 1 −2 5 −6 8 −8 6 −5 3 −1
9_{24}: 1 −3 5 −7 [8] −7 7 −4 2 −1
9_{25}: 1 [−2] 5 −7 8 −8 7 −5 3 −1
9_{26}: 1 −3 5 −7 8 −8 7 [−4] 3 −1
9_{27}: 1 −3 5 −7 [9] −8 7 −5 3 −1
9_{28}: −1 3 [−5] 8 −8 9 −8 5 −3 1
9_{29}: −1 3 −6 8 −8 9 [−7] 5 −3 1
9_{30}: −1 3 −5 8 −9 [9] −8 6 −3 1
9_{31}: −1 3 [−5] 8 −9 10 −8 6 −4 1
9_{32}: 1 −3 6 −9 10 −10 9 [−6] 4 −1
9_{33}: −1 3 −6 9 −10 [11] −9 7 −4 1
9_{34}: −1 4 −7 10 −12 [12] −10 8 −4 1
9_{35}: {1} 1 −2 3 −4 5 −3 4 −3 1 −1
9_{36}: −1 2 −4 6 −6 6 −5 4 −2 [1]
9_{37}: 1 −2 5 −7 [7] −8 7 −4 3 −1
9_{38}: {2} 1 −3 7 −8 10 −10 8 −6 3 −1
9_{39}: −1 3 −6 8 −9 10 −8 6 [−3] 1
9_{40}: −1 5 [−8] 11 −13 13 −11 8 −4 1
9_{41}: 1 −3 5 −7 8 −8 [8] −5 3 −1
9_{42}: 1 −1 1 [−1] 1 −1 1
9_{43}: [1] −1 2 −2 2 −2 2 −1
9_{44}: 1 −2 [3] −3 3 −2 2 −1
9_{45}: {−8} −1 2 −3 4 −4 4 −3 2
9_{46}: 1 −1 1 −2 1 −1 [2]
9_{47}: −1 3 [−3] 5 −5 4 −4 2
9_{48}: −2 3 −4 6 −4 4 [−3] 1
9_{49}: {2} 1 −2 4 −4 5 −4 3 −2
10_1: 1 −1 [2] −2 2 −2 2 −2 1 −1 1
10_2: {1} 1 −1 2 −2 3 −3 3 −3 2 −2 1
10_3: 1 −1 2 −3 [4] −4 3 −3 2 −1 1
10_4: 1 −2 3 −3 4 [−4] 3 −3 2 −1 1
10_5: −1 2 −3 4 −5 5 −4 4 −2 [2] −1
10_6: [1] −1 3 −4 5 −6 6 −5 3 −2 1
10_7: 1 [−2] 4 −5 7 −7 6 −5 3 −2 1
10_8: 1 −1 [2] −3 4 −4 4 −4 3 −2 1
10_9: 1 −2 3 [−4] 6 −6 6 −5 3 −2 1
10_{10}: −1 2 −3 5 −6 7 −7 [6] −4 3 −1
10_{11}: 1 −1 3 [−5] 6 −7 7 −6 4 −2 1
10_{12}: −1 2 −4 6 −7 8 −7 6 [−3] 2 −1

10_{13}: 1 −2 5 −7 [8] −9 8 −6 4 −2 1
10_{14}: [1] −2 4 −6 9 −9 9 −8 5 −3 1
10_{15}: −1 2 −4 6 −6 7 [−6] 5 −3 2 −1
10_{16}: 1 −2 4 [−5] 7 −8 7 −6 4 −2 1
10_{17}: −1 2 −3 5 −6 [7] −6 5 −3 2 −1
10_{18}: 1 −2 4 [−6] 8 −9 9 −7 5 −3 1
10_{19}: −1 2 −3 6 [−7] 8 −8 7 −5 3 −1
10_{20}: 1 [−1] 3 −4 5 −6 5 −4 3 −2 1
10_{21}: [1] −2 4 −5 7 −7 7 −6 3 −2 1
10_{22}: 1 −2 4 −6 [8] −8 7 −6 4 −2 1
10_{23}: −1 2 −4 7 −9 10 −9 8 [−5] 3 −1
10_{24}: 1 [−2] 5 −7 9 −9 8 −7 4 −2 1
10_{25}: [1] −2 5 −7 10 −11 10 −9 6 −3 1
10_{26}: 1 −3 6 −8 [10] −10 9 −7 4 −2 1
10_{27}: −1 3 −6 9 −11 12 −11 9 [−5] 3 −1
10_{28}: −1 2 −4 6 −7 9 −8 [7] −5 3 −1
10_{29}: 1 −2 5 [−7] 9 −11 10 −8 6 −3 1
10_{30}: 1 [−3] 6 −8 11 −11 10 −8 5 −3 1
10_{31}: −1 2 −4 7 −8 [10] −9 7 −5 3 −1
10_{32}: 1 −3 6 −9 [11] −11 11 −8 5 −3 1
10_{33}: −1 3 −5 8 −10 [11] −10 8 −5 3 −1
10_{34}: −1 2 −3 4 −5 6 −5 [5] −3 2 −1
10_{35}: 1 −2 4 −6 7 −8 [8] −6 4 −2 1
10_{36}: 1 [−2] 4 −6 8 −8 8 −6 4 −3 1
10_{37}: −1 2 −4 7 −8 [9] −8 7 −4 2 −1
10_{38}: 1 [−2] 5 −7 9 −10 9 −7 5 −3 1
10_{39}: [1] −2 5 −7 9 −10 10 −8 5 −3 1
10_{40}: −1 3 −6 9 −12 13 −11 10 [−6] 3 −1
10_{41}: 1 −3 6 [−8] 11 −12 11 −9 6 −3 1
10_{42}: −1 3 −6 10 −12 [14] −13 10 −7 4 −1
10_{43}: −1 3 −6 9 −11 [13] −11 9 −6 3 −1
10_{44}: 1 −3 6 [−9] 12 −13 13 −10 7 −4 1
10_{45}: −1 4 −7 11 −14 [15] −14 11 −7 4 −1
10_{46}: {1} 1 −1 3 −3 4 −5 4 −4 3 −2 1
10_{47}: −1 2 −4 5 −6 7 −5 5 −3 [2] −1
10_{48}: −1 2 −4 6 −7 [9] −7 6 −4 2 −1
10_{49}: {3} 1 −2 5 −6 9 −10 9 −8 5 −3 1
10_{50}: [1] −2 5 −6 8 −9 8 −7 4 −2 1
10_{51}: −1 2 −5 8 −10 12 −10 9 [−6] 3 −1
10_{52}: −1 2 −4 7 [−8] 10 −9 8 −6 3 −1
10_{53}: {2} 1 −3 7 −9 12 −12 11 −9 5 −3 1
10_{54}: −1 2 −4 6 −7 8 [−6] 6 −4 2 −1
10_{55}: {2} 1 −2 5 −7 10 −10 9 −8 5 −3 1
10_{56}: [1] −2 5 −7 10 −11 10 −9 6 −3 1
10_{57}: −1 3 −7 10 −12 14 −12 10 [−6] 3 −1
10_{58}: 1 −2 5 −8 [10] −11 10 −8 6 −3 1
10_{59}: 1 −3 6 [−9] 12 −12 12 −10 6 −3 1
10_{60}: 1 −3 6 −10 13 −14 [14] −11 8 −4 1
10_{61}: 1 −1 [3] −4 4 −5 5 −4 3 −2 1
10_{62}: −1 2 −4 6 −7 7 −6 6 −3 [2] −1
10_{63}: {2} 1 −2 5 −7 9 −9 9 −7 4 −3 1
10_{64}: 1 −2 4 [−6] 8 −8 8 −7 4 −2 1
10_{65}: −1 2 −5 8 −9 11 −10 8 [−5] 3 −1
10_{66}: {3} 1 −2 6 −8 11 −13 12 −10 7 −4 1
10_{67}: 1 [−2] 5 −8 10 −10 10 −8 5 −3 1
10_{68}: −1 2 −4 7 −8 9 −9 [8] −5 3 −1
10_{69}: −1 3 −7 11 −13 15 −14 11 [−7] 4 −1
10_{70}: 1 −3 6 −9 11 −11 10 [−8] 5 −2 1
10_{71}: −1 3 −6 10 −12 [13] −12 10 −6 3 −1
10_{72}: [1] −2 5 −8 11 −12 12 −10 7 −4 1
10_{73}: −1 3 −6 10 −13 14 −13 11 [−7] 4 −1
10_{74}: 1 [−3] 6 −8 11 −10 9 −8 4 −2 1
10_{75}: 1 −3 6 −10 12 −13 [14] −10 7 −4 1
10_{76}: [1] −1 4 −6 8 −10 9 −8 6 −3 1
10_{77}: −1 3 −6 8 −10 11 −9 8 [−4] 2 −1
10_{78}: [1] −3 6 −8 11 −11 11 −9 5 −3 1
10_{79}: −1 2 −5 8 −9 [11] −9 8 −5 2 −1
10_{80}: {3} 1 −2 6 −8 11 −12 11 −10 6 −3 1
10_{81}: −1 3 −7 11 −13 [15] −13 11 −7 3 −1
10_{82}: 1 −3 5 [−7] 10 −10 10 −8 5 −3 1
10_{83}: −1 3 −6 10 −13 14 −13 11 [−7] 4 −1
10_{84}: −1 3 [−6] 11 −13 15 −14 11 −8 4 −1
10_{85}: −1 3 −5 7 −9 9 −8 7 −4 [3] −1
10_{86}: 1 −4 8 −11 [14] −14 13 −10 6 −3 1
10_{87}: 1 −3 6 −10 [13] −13 13 −10 7 −4 1
10_{88}: −1 4 −8 13 −16 [17] −16 13 −8 4 −1
10_{89}: −1 3 −7 12 −15 17 −16 13 [−9] 5 −1
10_{90}: 1 −3 7 −10 [12] −13 12 −9 6 −3 1
10_{91}: −1 3 −6 9 −11 [13] −11 9 −6 3 −1
10_{92}: [1] −3 7 −10 14 −15 14 −12 8 −4 1
10_{93}: −1 3 −6 9 −10 11 [−10] 8 −5 3 −1
10_{94}: 1 −3 6 [−8] 11 −12 11 −9 6 −3 1
10_{95}: −1 3 −7 11 −14 16 −14 12 [−8] 4 −1
10_{96}: 1 −3 7 −11 14 −16 [15] −12 9 −4 1
10_{97}: 1 [−3] 7 −11 14 −14 14 −11 7 −4 1
10_{98}: [1] −3 7 −9 13 −14 12 −11 7 −3 1
10_{99}: −1 3 −7 10 −12 [15] −12 10 −7 3 −1
10_{100}: −1 3 −6 8 −10 11 −9 8 −5 [3] −1
10_{101}: {2} 1 −3 7 −10 14 −14 13 −11 7 −4 1
10_{102}: 1 −3 6 −9 [12] −12 11 −9 6 −3 1
10_{103}: −1 3 −6 9 −12 13 −11 10 [−6] 3 −1
10_{104}: −1 3 −6 10 −12 [13] −12 10 −6 3 −1
10_{105}: 1 −3 7 [−11] 14 −15 15 −12 8 −4 1
10_{106}: 1 −3 6 [−9] 12 −12 12 −10 6 −3 1
10_{107}: −1 3 −7 12 −14 [16] −15 12 −8 4 −1
10_{108}: −1 3 −5 8 [−9] 10 −10 8 −5 3 −1
10_{109}: −1 3 −7 11 −13 [15] −13 11 −7 3 −1
10_{110}: 1 −3 7 [−10] 13 −14 13 −11 7 −3 1
10_{111}: [1] −3 7 −9 12 −13 12 −10 6 −3 1
10_{112}: 1 −4 7 −11 14 −14 14 [−10] 7 −4 1
10_{113}: −1 4 [−8] 14 −17 19 −18 14 −10 5 −1
10_{114}: 1 −4 7 −11 15 −15 [15] −12 8 −4 1
10_{115}: −1 4 −9 14 −17 [19] −17 14 −9 4 −1
10_{116}: 1 −4 8 −12 15 −16 15 [−11] 8 −4 1
10_{117}: −1 4 −9 13 −16 18 −16 13 [−8] 4 −1
10_{118}: −1 4 −8 12 −15 [17] −15 12 −8 4 −1
10_{119}: 1 −4 8 −12 16 −17 [16] −13 9 −4 1
10_{120}: {2} 1 −4 10 −13 17 −18 16 −13 8 −

4 1
10_{121}: $-1\ 5\ [-10]\ 15\ -18\ 20\ -18\ 14\ -9\ 4\ -1$
10_{122}: $1\ -5\ 9\ -13\ 17\ -17\ [17]\ -13\ 8\ -4\ 1$
10_{123}: $-1\ 5\ -10\ 15\ -19\ [21]\ -19\ 15\ -10\ 5\ -1$
10_{124}: $\{4\}\ 1\ 0\ 1\ 0\ 0\ 0\ -1$
10_{125}: $-1\ 1\ -1\ 2\ [-1]\ 2\ -1\ 1\ -1$
10_{126}: $-1\ 1\ -2\ 3\ -3\ 4\ -2\ 2\ [-1]$
10_{127}: $\{2\}\ 2\ -2\ 4\ -5\ 5\ -5\ 3\ -2\ 1$
10_{128}: $\{3\}\ 1\ -1\ 2\ -1\ 2\ -2\ 1\ -1$
10_{129}: $-1\ 2\ -3\ [5]\ -4\ 4\ -3\ 2\ -1$
10_{130}: $-1\ 1\ -2\ 3\ -2\ 3\ -2\ [2]\ -1$
10_{131}: $\{1\}\ 2\ -3\ 5\ -5\ 5\ -5\ 3\ -2\ 1$
10_{132}: $\{-7\}\ -1\ 1\ -1\ 1\ 0\ 1$
10_{133}: $\{1\}\ 1\ -1\ 3\ -3\ 3\ -3\ 2\ -2\ 1$
10_{134}: $\{3\}\ 1\ -1\ 3\ -3\ 4\ -4\ 3\ -3\ 1$
10_{135}: $-2\ 4\ -5\ [7]\ -6\ 6\ -4\ 2\ -1$
10_{136}: $-1\ 2\ -2\ 3\ [-2]\ 2\ -2\ 1$
10_{137}: $1\ -2\ [4]\ -4\ 4\ -4\ 3\ -2\ 1$
10_{138}: $1\ -2\ 4\ [-5]\ 6\ -6\ 5\ -4\ 2$
10_{139}: $\{4\}\ 1\ 0\ 1\ 0\ -1\ 1\ -1\ 1\ -1$
10_{140}: $[1]\ -1\ 1\ -1\ 2\ -1\ 1\ -1$
10_{141}: $1\ -2\ [3]\ -3\ 4\ -3\ 2\ -2\ 1$
10_{142}: $\{3\}\ 1\ -1\ 2\ -2\ 3\ -2\ 2\ -2$
10_{143}: $-1\ 2\ -3\ 4\ -5\ 5\ -3\ 3\ [-1]$
10_{144}: $2\ [-3]\ 5\ -7\ 7\ -6\ 5\ -3\ 1$
10_{145}: $\{-10\}\ -1\ 1\ -1\ 1\ 0\ 0\ 0\ 0\ 1$
10_{146}: $-1\ 3\ -4\ 5\ -6\ [6]\ -4\ 3\ -1$
10_{147}: $1\ -2\ 3\ [-4]\ 5\ -4\ 4\ -3\ 1$
10_{148}: $-1\ 2\ -4\ 5\ -5\ 6\ -4\ 3\ [-1]$
10_{149}: $\{2\}\ 2\ -3\ 6\ -7\ 7\ -7\ 5\ -3\ 1$
10_{150}: $[1]\ -2\ 4\ -4\ 5\ -5\ 4\ -3\ 1$
10_{151}: $-2\ 4\ -6\ 8\ -7\ 7\ [-5]\ 3\ -1$
10_{152}: $\{4\}\ 1\ 0\ 1\ 1\ -2\ 2\ -3\ 2\ -2\ 1$
10_{153}: $-1\ 1\ -1\ 1\ 0\ [1]\ 1\ -1\ 1\ -1$
10_{154}: $\{3\}\ 1\ 0\ 0\ 2\ -2\ 2\ -3\ 2\ -2\ 1$
10_{155}: $1\ -2\ 3\ -4\ 4\ -4\ [4]\ -2\ 1$
10_{156}: $-1\ 3\ -5\ 6\ -6\ 6\ [-4]\ 3\ -1$
10_{157}: $\{-10\}\ 1\ -4\ 6\ -8\ 9\ -8\ 7\ -4\ 2$
10_{158}: $1\ -3\ 6\ -7\ [8]\ -8\ 6\ -4\ 2$
10_{159}: $[-1]\ 4\ -5\ 7\ -7\ 6\ -5\ 3\ -1$
10_{160}: $[1]\ -2\ 3\ -3\ 4\ -3\ 3\ -2$
10_{161}: $\{3\}\ 1\ 0\ 0\ 1\ -1\ 1\ -1\ 1\ -1$
10_{162}: $1\ -2\ 4\ -6\ 6\ -6\ 5\ [-3]\ 2$
10_{163}: $-1\ 4\ [-6]\ 8\ -9\ 9\ -7\ 5\ -2$
10_{164}: $-1\ 3\ -5\ 7\ -8\ [8]\ -6\ 5\ -2$
10_{165}: $\{-9\}\ 1\ -3\ 4\ -6\ 7\ -6\ 6\ -4\ 2$

5 Homfly polynomials

3_1: $(\{2\}\ -2\ -1)\ (\{2\}\ 1)$
4_1: $(\ -1\ [-1]\ -1)\ (\ [1])$
5_1: $(\{4\}\ 3\ 2)\ (\{4\}\ -4\ -1)\ (\{4\}\ 1)$
5_2: $(\{2\}\ -1\ 1\ 1)\ (\{2\}\ 1\ -1)$
6_1: $(\ -1\ [0]\ 1\ 1)\ (\ [1]\ -1)$
6_2: $(\ [2]\ 2\ 1)\ (\ [-1]\ -3\ -1)\ (\{2\}\ 1)$
6_3: $(\ 1\ [3]\ 1)\ (\ -1\ [-3]\ -1)\ (\ [1])$
7_1: $(\{6\}\ -4\ -3)\ (\{6\}\ 10\ 4)\ (\{6\}\ -6\ -1)\ (\{6\}\ 1)$
7_2: $(\{2\}\ -1\ 0\ -1\ -1)\ (\{2\}\ 1\ -1\ 1)$
7_3: $(\{4\}\ 1\ -2\ -2)\ (\{4\}\ -3\ 3\ 1)\ (\{4\}\ 1\ -1)$
7_4: $(\{4\}\ 2\ 0\ -1)\ (\{2\}\ 1\ -2\ 1)$
7_5: $(\{4\}\ 2\ 0\ -1)\ (\{4\}\ -3\ 2\ 1)\ (\{4\}\ 1\ -1)$
7_6: $(\ [1]\ 1\ 2\ 1)\ (\ [-1]\ -2\ -2)\ (\{2\}\ 1)$
7_7: $(\ 1\ 2\ [2])\ (\ -2\ [-2]\ -1)\ (\ [1])$
8_1: $(\ -1\ [0]\ 0\ -1\ -1)\ (\ [1]\ -1\ 1)$
8_2: $(\{2\}\ -3\ -3\ -1)\ (\{2\}\ 4\ 7\ 3)\ (\{2\}\ -1\ -5\ -1)\ (\{4\}\ 1)$
8_3: $(\ 1\ 0\ [-1]\ 0\ 1)\ (\ -1\ [2]\ -1)$
8_4: $(\ 1\ 0\ [-2]\ -2)\ (\ -1\ -2\ [3]\ 1)\ (\ 1\ [-1])$
8_5: $(\{2\}\ -4\ -5\ -2)\ (\{2\}\ 4\ 8\ 3)\ (\{2\}\ -1\ -5\ -1)\ (\{4\}\ 1)$
8_6: $(\ [2]\ 1\ -1\ -1)\ (\ [-1]\ -2\ 2\ 1)\ (\{2\}\ 1\ -1)$
8_7: $(\ -2\ -4\ [-1])\ (\ 3\ 8\ [3])\ (\ -1\ -5\ [-1])\ (\{-2\}\ 1)$
8_8: $(\ -1\ -1\ [2]\ 1)\ (\ 1\ 2\ [-2]\ -1)\ (\ -1\ [1])$
8_9: $(\ -2\ [-3]\ -2)\ (\ 3\ [8]\ 3)\ (\ -1\ [-5]\ -1)\ (\ [1])$
8_{10}: $(\ -3\ -6\ [-2])\ (\ 3\ 9\ [3])\ (\ -1\ -5\ [-1])\ (\{-2\}\ 1)$
8_{11}: $(\ [1]\ -1\ -2\ -1)\ (\ [-1]\ -1\ 2\ 1)\ (\{2\}\ 1\ -1)$

8_{12}: (1 1 [1] 1 1) (−2 [−1] − 2) ([1])

8_{13}: ({−4} − 1 − 2) (1 2 [−1] − 1) (−1 [1])

8_{14}: ([1]) ([−1] − 1 1 1) ({2} 1 − 1)

8_{15}: ({4} 1 − 3 − 4 − 1) ({4} − 2 5 3) ({4} 1 − 2)

8_{16}: ({−4} − 1 − 2) (2 5 [2]) (−1 − 4 [−1]) ({−2} 1)

8_{17}: (−1 [−1] − 1) (2 [5] 2) (−1 [−4] − 1) ([1])

8_{18}: (1 [3] 1) (1 [1] 1) (−1 [−3] − 1) ([1])

8_{19}: ({6} − 5 − 5 − 1) ({6} 10 5) ({6} − 6 − 1) ({6} 1)

8_{20}: (−2 − 4 [−1]) (1 4 [1]) ({−2} − 1)

8_{21}: ({2} − 3 − 3 − 1) ({2} 2 3 1) ({4} − 1)

9_{1}: ({8} 5 4) ({8} − 20 − 10) ({8} 21 6) ({8} − 8 − 1) ({8} 1)

9_{2}: ({2} − 1 0 0 1 1) ({2} 1 − 1 1 − 1)

9_{3}: ({6} − 1 3 3) ({6} 6 − 7 − 4) ({6} − 5 5 1) ({6} 1 − 1)

9_{4}: ({4} 1 0 2 2) ({4} − 3 2 − 3 − 1) ({4} 1 − 1 1)

9_{5}: ({4} 1 − 1 0 1) ({2} 1 − 2 2 − 1)

9_{6}: ({6} − 3 − 1 1) ({6} 7 − 3 − 3) ({6} − 5 4 1) ({6} 1 − 1)

9_{7}: ({4} 2 1 1 1) ({4} − 3 1 − 2 − 1) ({4} 1 − 1 1)

9_{8}: (−1 [−1] 0 2 1) (1 [2] − 1 − 2) ([−1] 1)

9_{9}: ({6} − 2 1 2) ({6} 7 − 4 − 3) ({6} − 5 4 1) ({6} 1 − 1)

9_{10}: ({6} − 2 1 2) ({4} − 2 5 − 2 − 1) ({4} 1 − 2 1)

9_{11}: ({−8} − 2 − 3 − 1 − 1) ({−8} 1 6 4 3) ({−6} − 2 − 4 − 1) ({−4} 1)

9_{12}: ([1] 0 − 1 − 2 − 1) ([−1] − 1 1 2) ({2} 1 − 1)

9_{13}: ({6} − 3 − 1 1) ({4} − 2 5 − 1 − 1) ({4} 1 − 2 1)

9_{14}: (−1 − 2 − 1 [1]) (2 1 [−1] − 1) (−1 [1])

9_{15}: (−1 − 1 1 1 [1]) (2 0 − 1 [−1]) ({−4} − 1 1)

9_{16}: ({6} − 4 − 3) ({6} 8 0 − 2) ({6} − 5 3 1) ({6} 1 − 1)

9_{17}: (−2 [−3] − 2) (1 [6] 5 2) ([−2] − 4 − 1) ({2} 1)

9_{18}: ({4} 1 − 1 0 1) ({4} − 2 4 − 1 − 1) ({4} 1 − 2 1)

9_{19}: (1 1 [0] − 1) (−2 [0] 1 1) ([1] − 1)

9_{20}: ({2} − 2 − 2 − 2 − 1) ({2} 3 5 5 1) ({2} − 1 − 4 − 2) ({4} 1)

9_{21}: ({−8} − 1 − 1 0 − 1) (2 0 0 [−1]) ({−4} − 1 1)

9_{22}: (−2 [−4] − 4 − 1) (1 [6] 6 2) ([−2] − 4 − 1) ({2} 1)

9_{23}: ({4} 1 − 2 − 2) ({4} − 2 4 0 − 1) ({4} 1 − 2 1)

9_{24}: (−1 [−3] − 5 − 2) (2 [6] 6 1) (−1 [−4] − 2) ([1])

9_{25}: ([1] − 1 − 3 − 3 − 1) ([−1] 0 4 3) ({2} 1 − 2)

9_{26}: ({−6} − 1 − 3 − 3) (1 5 6 [2]) (−2 − 4 [−1]) ({−2} 1)

9_{27}: (−1 [−2] − 3 − 1) (2 [6] 5 1) (−1 [−4] − 2) ([1])

9_{28}: ([−1] − 5 − 4 − 1) ([2] 7 5 1) ([−1] − 4 − 2) ({2} 1)

9_{29}: (−2 − 5 [−3] − 1) (2 7 [5] 1) (−1 − 4 [−2]) ({−2} 1)

9_{30}: (−1 − 4 [−4] − 2) (1 5 [7] 2) (−2 [−4] − 1) ([1])

9_{31}: ([−1] − 4 − 2) ([2] 7 4 1) ([−1] − 4 − 2) ({2} 1)

9_{32}: (−1 − 2 − 1 [1]) (1 4 3 [1]) (−2 − 3 [−1]) ({−2} 1)

9_{33}: ({−4} − 1 − 2) (1 4 [3] 1) (−2 [−3] − 1) ([1])

9_{34}: (−1 [−1] − 1) (1 3 [4] 1) (−2 [−3] − 1) ([1])

9_{35}: ({6} − 3 − 1 1) ({2} 1 − 2 3 − 1)

9_{36}: ({−8} − 2 − 4 − 3 − 2) ({−8} 1 6 5 3) ({−6} − 2 − 4 − 1) ({−4} 1)

9_{37}: (1 0 [−2] − 2) (−2 [1] 1 1) ([1] − 1)

9_{38}: ({6} − 4 − 3) ({4} − 1 7 1 − 1) ({4} 1 − 3 1)

9_{39}: ({−8} − 1 − 2 − 2 − 2) (3 3 1 [−1]) ({−4} − 2 1)

9_{40}: ([2] 2 1) ({4} 2 1) ([−1] − 2 − 2) ({2} 1)

9_{41}: ({−6} − 1 − 3 − 3) (3 4 [0] − 1) (−2 [1])

9_{42}: (−2 [−3] − 2) (1 [4] 1) ([−1])

9_{43}: ({2} − 3 − 4 − 3 − 1) ({2} 4 7 4) ({2} − 1 − 5 − 1) ({4} 1)

9_{44}: (−1 [−2] − 3 − 1) ([2] 3 1) ({2} − 1)

9_{45}: $(\{-8\}\ -1\ -2\ -2\ -2)$ $(\{-6\}\ 2\ 2\ 2)$ $(\{-4\}\ -1)$
9_{46}: $(\ -1\ -1\ 1\ [2])$ $(\{-4\}\ 1\ -1)$
9_{47}: $(\ [1]\ -1\ -2\ -1)$ $(\ [2]\ 4\ 3)$ $(\ [-1]\ -4\ -1)$ $(\{2\}\ 1)$
9_{48}: $(\{-6\}\ 2\ 3)$ $(\ -3\ -1\ [-1])$ $(\{-2\}\ 1)$
9_{49}: $(\{6\}\ -4\ -3)$ $(\{4\}\ -2\ 6\ 2)$ $(\{4\}\ 1\ -2)$
10_{1}: $(\ -1\ [0]\ 0\ 0\ 1\ 1)$ $(\ [1]\ -1\ 1\ -1)$
10_{2}: $(\{4\}\ 4\ 4\ 1)$ $(\{4\}\ -10\ -14\ -6)$ $(\{4\}\ 6\ 16\ 5)$ $(\{4\}\ -1\ -7\ -1)$ $(\{6\}\ 1)$
10_{3}: $(\ 1\ 0\ [0]\ 1\ 0\ -1)$ $(\ -1\ [2]\ -2\ 1)$
10_{4}: $(\ 1\ 0\ [0]\ 2\ 2)$ $(\ -1\ -2\ [2]\ -3\ -1)$ $(\ 1\ [-1]\ 1)$
10_{5}: $(\{-6\}\ 3\ 5\ 1)$ $(\{-6\}\ -7\ -17\ -6)$ $(\{-6\}\ 5\ 17\ 5)$ $(\{-6\}\ -1\ -7\ -1)$ $(\{-4\}\ 1)$
10_{6}: $(\{2\}\ -3\ -2\ 1\ 1)$ $(\{2\}\ 4\ 4\ -4\ -3)$ $(\{2\}\ -1\ -4\ 4\ 1)$ $(\{4\}\ 1\ -1)$
10_{7}: $(\ [1]\ 0\ 1\ 2\ 1)$ $(\ [-1]\ -1\ 0\ -2\ -1)$ $(\{2\}\ 1\ -1\ 1)$
10_{8}: $(\ [3]\ 3\ 0\ -1)$ $(\ [-4]\ -7\ 3\ 3)$ $(\ [1]\ 5\ -4\ -1)$ $(\{2\}\ -1\ 1)$
10_{9}: $(\ [3]\ 4\ 2)$ $(\ [-7]\ -16\ -7)$ $(\ [5]\ 17\ 5)$ $(\ [-1]\ -7\ -1)$ $(\{2\}\ 1)$
10_{10}: $(\ 1\ 2\ 1\ [1])$ $(\ -1\ -2\ 0\ [-1]\ -1)$ $(\ 1\ -1\ [1])$
10_{11}: $(\ -2\ [-1]\ 1\ 0\ -1)$ $(\ 1\ [2]\ -4\ 1\ 1)$ $(\ [-1]\ 2\ -1)$
10_{12}: $(\ 2\ 2\ -2\ [-1])$ $(\ -3\ -5\ 5\ [3])$ $(\ 1\ 4\ -4\ [-1])$ $(\{-4\}\ -1\ 1)$
10_{13}: $(\ 1\ 0\ [-1]\ -1\ -1\ -1)$ $(\ -2\ [1]\ 0\ 2)$ $(\ [1]\ -1)$
10_{14}: $(\{2\}\ -1\ 1\ 1)$ $(\{2\}\ 3\ 1\ -2\ -2)$ $(\{2\}\ -1\ -3\ 3\ 1)$ $(\{4\}\ 1\ -1)$
10_{15}: $(\ -2\ -3\ [1]\ 1)$ $(\ 3\ 5\ [-4]\ -3)$ $(\ -1\ -4\ [4]\ 1)$ $(\ 1\ [-1])$
10_{16}: $(\ -1\ [1]\ 2\ 0\ -1)$ $(\ 1\ [1]\ -4\ 1\ 1)$ $(\ [-1]\ 2\ -1)$
10_{17}: $(\ 2\ [5]\ 2)$ $(\ -7\ [-16]\ -7)$ $(\ 5\ [17]\ 5)$ $(\ -1\ [-7]\ -1)$ $(\ [1])$
10_{18}: $(\ -1\ [0]\ 1\ 1)$ $(\ 1\ [1]\ -3\ 0\ 1)$ $(\ [-1]\ 2\ -1)$
10_{19}: $(\ 1\ [3]\ 1)$ $(\ -3\ [-5]\ 1\ 2)$ $(\ 1\ [4]\ -3\ -1)$ $(\ [-1]\ 1)$
10_{20}: $(\ [2]\ 1\ 0\ 1\ 1)$ $(\ [-1]\ -2\ 1\ -2\ -1)$ $(\{2\}\ 1\ -1\ 1)$
10_{21}: $(\{2\}\ -1\ 2\ 3\ 1)$ $(\{2\}\ 3\ 0\ -5\ -3)$ $(\{2\}\ -1\ -3\ 4\ 1)$ $(\{4\}\ 1\ -1)$
10_{22}: $(\ -2\ [-1]\ 2\ 2)$ $(\ 3\ [5]\ -5\ -3)$ $(\ -1\ [-4]\ 4\ 1)$ $(\ [1]\ -1)$
10_{23}: $(\{-6\}\ 2\ 3)$ $(\ -3\ -6\ 2\ [2])$ $(\ 1\ 4\ -3\ [-1])$ $(\{-4\}\ -1\ 1)$
10_{24}: $(\ [1]\ -1\ -1\ 1\ 1)$ $(\ [-1]\ 0\ 3\ -1\ -1)$ $(\{2\}\ 1\ -2\ 1)$
10_{25}: $(\{2\}\ -2\ 0\ 2\ 1)$ $(\{2\}\ 3\ 2\ -3\ -2)$ $(\{2\}\ -1\ -3\ 3\ 1)$ $(\{4\}\ 1\ -1)$
10_{26}: $(\ -1\ [1]\ 3\ 2)$ $(\ 2\ [2]\ -6\ -3)$ $(\ -1\ [-3]\ 4\ 1)$ $(\ [1]\ -1)$
10_{27}: $(\{-6\}\ 1\ 1\ -1)$ $(\ -2\ -3\ 3\ [2])$ $(\ 1\ 3\ -3\ [-1])$ $(\{-4\}\ -1\ 1)$
10_{28}: $(\ 1\ 0\ -3\ [-1])$ $(\ -1\ -1\ 4\ [0]\ -1)$ $(\ 1\ -2\ [1])$
10_{29}: $(\ -2\ [-2]\ -1\ -1\ -1)$ $(\ 1\ [5]\ 3\ 4\ 1)$ $(\ [-2]\ -3\ -2)$ $(\{2\}\ 1)$
10_{30}: $(\{2\}\ -2\ -1)$ $(\ [-1]\ 1\ 2\ 0\ -1)$ $(\{2\}\ 1\ -2\ 1)$
10_{31}: $(\ -1\ -1\ [2]\ 1)$ $(\ 1\ 1\ [-3]\ 0\ 1)$ $(\ -1\ [2]\ -1)$
10_{32}: $(\ -1\ [-1]\ -1)$ $(\ 2\ [3]\ -2\ -2)$ $(\ -1\ [-3]\ 3\ 1)$ $(\ [1]\ -1)$
10_{33}: $(\ [1])$ $(\ 1\ 0\ [-2]\ 0\ 1)$ $(\ -1\ [2]\ -1)$
10_{34}: $(\ 1\ 1\ 0\ [2]\ 1)$ $(\ -1\ -2\ 1\ [-2]\ -1)$ $(\ 1\ -1\ [1])$
10_{35}: $(\ -1\ -1\ 0\ [1]\ 1\ 1)$ $(\ 2\ 0\ [0]\ -2)$ $(\ -1\ [1])$
10_{36}: $(\ [1]\ 1\ 2\ 1)$ $(\ [-1]\ -1\ -1\ -1\ -1)$ $(\{2\}\ 1\ -1\ 1)$
10_{37}: $(\ -1\ -1\ [1]\ -1\ -1)$ $(\ 1\ 1\ [-3]\ 1\ 1)$ $(\ -1\ [2]\ -1)$
10_{38}: $(\ [1]\ -1\ -2\ -1)$ $(\ [-1]\ 0\ 3\ 0\ -1)$ $(\{2\}\ 1\ -2\ 1)$
10_{39}: $(\{2\}\ -2\ -1)$ $(\{2\}\ 3\ 2\ -2\ -2)$ $(\{2\}\ -1\ -3\ 3\ 1)$ $(\{4\}\ 1\ -1)$
10_{40}: $(\ 1\ 0\ -3\ [-1])$ $(\ -2\ -3\ 4\ [2])$ $(\ 1\ 3\ -3\ [-1])$ $(\{-4\}\ -1\ 1)$
10_{41}: $(\ -1\ [-1]\ -2\ -2\ -1)$ $(\ 1\ [4]\ 4\ 4\ 1)$ $(\ [-2]\ -3\ -2)$ $(\{2\}\ 1)$
10_{42}: $(\ -1\ -3\ [-2]\ -1)$ $(\ 1\ 4\ [5]\ 3\ 1)$ $(\ -2\ [-3]\ -2)$ $(\ [1])$
10_{43}: $(\ -1\ -2\ [-1]\ -2\ -1)$ $(\ 1\ 4\ [4]\ 4\ 1)$ $(\ -2\ [-3]\ -2)$ $(\ [1])$
10_{44}: $(\ -1\ [-2]\ -3\ -1)$ $(\ 1\ [4]\ 5\ 3\ 1)$ $(\ [-2]\ -3\ -2)$ $(\{2\}\ 1)$
10_{45}: $(\ -2\ [-3]\ -2)$ $(\ 1\ 3\ [6]\ 3\ 1)$ $(\ -2\ [-3]\ -2)$ $(\ [1])$
10_{46}: $(\{4\}\ 6\ 8\ 3)$ $(\{4\}\ -11\ -18\ -7)$ $(\{4\}\ 6\ 17\ 5)$ $(\{4\}\ -1\ -7\ -1)$ $(\{6\}\ 1)$
10_{47}: $(\{-6\}\ 5\ 9\ 3)$ $(\{-6\}\ -8\ -21\ -7)$ $(\{-6\}\ 5\ 18\ 5)$ $(\{-6\}\ -1\ -7\ -1)$ $(\{-4\}\ 1)$
10_{48}: $(\ 4\ [9]\ 4)$ $(\ -8\ [-20]\ -8)$ $(\ 5\ [18]\ 5)$ $(\ -1\ [-7]\ -1)$ $(\ [1])$
10_{49}: $(\{6\}\ -1\ 5\ 7\ 2)$ $(\{6\}\ 4\ -12\ -10\ -1)$ $(\{6\}\ -4\ 9\ 3)$ $(\{6\}\ 1\ -2)$

10_{50}: $(\{2\}\ -2\ 1\ 4\ 2)\ (\{2\}\ 3\ 1\ -6\ -3)\ (\{2\}\ -1\ -3\ 4\ 1)\ (\{4\}\ 1\ -1)$
10_{51}: $(\ 3\ 4\ -1\ [-1])\ (\ -3\ -7\ 3\ [2])\ (\ 1\ 4\ -3\ [-1])\ (\{-4\}\ -1\ 1)$
10_{52}: $(\ 2\ [4]\ 0\ -1)\ (\ -3\ [-6]\ 2\ 2)\ (\ 1\ [4]\ -3\ -1)\ (\ [-1]\ 1)$
10_{53}: $(\{6\}\ -3\ 0\ 3\ 1)\ (\{4\}\ -1\ 6\ -2\ -3)\ (\{4\}\ 1\ -3\ 2)$
10_{54}: $(\ -2\ -2\ [3]\ 2)\ (\ 3\ 5\ [-5]\ -3)\ (\ -1\ -4\ [4]\ 1)\ (\ 1\ [-1])$
10_{55}: $(\{4\}\ 1\ -1\ 1\ 3\ 1)\ (\{4\}\ -2\ 3\ -3\ -3)\ (\{4\}\ 1\ -2\ 2)$
10_{56}: $(\{2\}\ -2\ 0\ 2\ 1)\ (\{2\}\ 3\ 2\ -3\ -2)\ (\{2\}\ -1\ -3\ 3\ 1)\ (\{4\}\ 1\ -1)$
10_{57}: $(\ 2\ 2\ -2\ [-1])\ (\ -2\ -4\ 4\ [2])\ (\ 1\ 3\ -3\ [-1])\ (\{-4\}\ -1\ 1)$
10_{58}: $(\ 1\ 0\ [-2]\ -3\ -2\ -1)\ (\ -2\ [2]\ 3\ 3)\ (\ [1]\ -2)$
10_{59}: $(\ -1\ [-2]\ -4\ -3\ -1)\ (\ 1\ [4]\ 5\ 4\ 1)\ (\ [-2]\ -3\ -2)\ (\{2\}\ 1)$
10_{60}: $(\ -1\ -3\ -4\ [-2]\ -1)\ (\ 3\ 6\ [5]\ 1)\ (\ -3\ [-3]\ -1)\ (\ [1])$
10_{61}: $(\ [4]\ 5\ 1\ -1)\ (\ [-4]\ -8\ 3\ 3)\ (\ [1]\ 5\ -4\ -1)\ (\{2\}\ -1\ 1)$
10_{62}: $(\{-6\}\ 4\ 7\ 2)\ (\{-6\}\ -8\ -20\ -7)\ (\{-6\}\ 5\ 18\ 5)\ (\{-6\}\ -1\ -7\ -1)\ (\{-4\}\ 1)$
10_{63}: $(\{4\}\ 1\ 0\ 3\ 4\ 1)\ (\{4\}\ -2\ 3\ -4\ -3)\ (\{4\}\ 1\ -2\ 2)$
10_{64}: $(\ [4]\ 6\ 3)\ (\ [-8]\ -19\ -8)\ (\ [5]\ 18\ 5)\ (\ [-1]\ -7\ -1)\ (\{2\}\ 1)$
10_{65}: $(\{-6\}\ 3\ 5\ 1)\ (\ -3\ -7\ 2\ [2])\ (\ 1\ 4\ -3\ [-1])\ (\{-4\}\ -1\ 1)$
10_{66}: $(\{6\}\ -2\ 2\ 4\ 1)\ (\{6\}\ 5\ -9\ -8\ -1)\ (\{6\}\ -4\ 8\ 3)\ (\{6\}\ 1\ -2)$
10_{67}: $(\ [1])\ (\ [-1]\ 0\ 2\ 0\ -1)\ (\{2\}\ 1\ -2\ 1)$
10_{68}: $(\{-6\}\ 1\ 1\ -1)\ (\ -1\ -1\ 3\ [0]\ -1)\ (\ 1\ -2\ [1])$
10_{69}: $(\{-8\}\ -1\ -2\ -2\ -2)\ (\ 3\ 5\ 5\ [1])\ (\ -3\ -3\ [-1])\ (\{-2\}\ 1)$
10_{70}: $(\ -1\ -2\ -3\ [-3]\ -2)\ (\ 1\ 4\ 4\ [5]\ 1)\ (\ -2\ -3\ [-2])\ (\{-2\}\ 1)$
10_{71}: $(\ -1\ -3\ [-3]\ -3\ -1)\ (\ 1\ 4\ [5]\ 4\ 1)\ (\ -2\ [-3]\ -2)\ (\ [1])$
10_{72}: $(\{2\}\ -2\ -2\ -2\ -1)\ (\{2\}\ 3\ 3\ 1\ -1)\ (\{2\}\ -1\ -3\ 2\ 1)\ (\{4\}\ 1\ -1)$
10_{73}: $(\{-8\}\ -1\ -3\ -4\ -3)\ (\ 3\ 6\ 5\ [1])\ (\ -3\ -3\ [-1])\ (\{-2\}\ 1)$
10_{74}: $(\{2\}\ -2\ 0\ 2\ 1)\ (\ [-1]\ 1\ 2\ -1\ -1)\ (\{2\}\ 1\ -2\ 1)$
10_{75}: $(\{-6\}\ -1\ -3\ -3)\ (\ 3\ 6\ [4]\ 1)\ (\ -3\ [-3]\ -1)\ (\ [1])$
10_{76}: $(\{2\}\ -4\ -4\ 0\ 1)\ (\{2\}\ 4\ 6\ -2\ -2)\ (\{2\}\ -1\ -4\ 3\ 1)\ (\{4\}\ 1\ -1)$
10_{77}: $(\ 1\ -1\ -5\ [-2])\ (\ -2\ -2\ 7\ [3])\ (\ 1\ 3\ -4\ [-1])\ (\{-4\}\ -1\ 1)$
10_{78}: $(\{2\}\ -1\ -1\ -4\ -4\ -1)\ (\{2\}\ 2\ 3\ 7\ 3)\ (\{2\}\ -1\ -3\ -3)\ (\{4\}\ 1)$
10_{79}: $(\ 5\ [11]\ 5)\ (\ -9\ [-23]\ -9)\ (\ 5\ [19]\ 5)\ (\ -1\ [-7]\ -1)\ (\ [1])$
10_{80}: $(\{6\}\ -2\ 3\ 6\ 2)\ (\{6\}\ 5\ -9\ -9\ -1)\ (\{6\}\ -4\ 8\ 3)\ (\{6\}\ 1\ -2)$
10_{81}: $(\ -1\ -1\ [1]\ -1\ -1)\ (\ 1\ 3\ [1]\ 3\ 1)\ (\ -2\ [-2]\ -2)\ (\ [1])$
10_{82}: $(\ [1])\ (\ [-4]\ -8\ -4)\ (\ [4]\ 12\ 4)\ (\ [-1]\ -6\ -1)\ (\{2\}\ 1)$
10_{83}: $(\ 1\ 2\ 1\ [1])\ (\ -2\ -4\ 0\ [1])\ (\ 1\ 3\ -2\ [-1])\ (\{-4\}\ -1\ 1)$
10_{84}: $(\ [-1]\ -4\ -2)\ (\ [2]\ 5\ 0\ -1)\ (\ [-1]\ -3\ 2\ 1)\ (\{2\}\ 1\ -1)$
10_{85}: $(\{-6\}\ 1\ 1\ -1)\ (\{-6\}\ -4\ -9\ -3)\ (\{-6\}\ 4\ 12\ 4)\ (\{-6\}\ -1\ -6\ -1)\ (\{-4\}\ 1)$
10_{86}: $(\ [2]\ 2\ 1)\ (\ 1\ [0]\ -4\ -2)\ (\ -1\ [-2]\ 3\ 1)\ (\ [1]\ -1)$
10_{87}: $(\ -1\ [-2]\ -3\ -1)\ (\ 2\ [4]\ 1\ -1)\ (\ -1\ [-3]\ 2\ 1)\ (\ [1]\ -1)$
10_{88}: $(\ -1\ [-1]\ -1)\ (\ 1\ 2\ [3]\ 2\ 1)\ (\ -2\ [-2]\ -2)\ (\ [1])$
10_{89}: $(\ -1\ -2\ -1\ 0\ [1])\ (\{-6\}\ 3\ 4\ 2)\ (\ -3\ -2\ [-1])\ (\{-2\}\ 1)$
10_{90}: $(\ -2\ [-2]\ 0\ 1)\ (\ 2\ [4]\ -3\ -2)\ (\ -1\ [-3]\ 3\ 1)\ (\ [1]\ -1)$
10_{91}: $(\ 2\ [5]\ 2)\ (\ -5\ [-12]\ -5)\ (\ 4\ [13]\ 4)\ (\ -1\ [-6]\ -1)\ (\ [1])$
10_{92}: $(\{2\}\ -1\ 1\ 1)\ (\{2\}\ 2\ 0\ -1\ -1)\ (\{2\}\ -1\ -2\ 2\ 1)\ (\{4\}\ 1\ -1)$
10_{93}: $(\{-4\}\ -1\ -2)\ (\ 2\ 3\ [-2]\ -2)\ (\ -1\ -3\ [3]\ 1)\ (\ 1\ [-1])$
10_{94}: $(\ [3]\ 4\ 2)\ (\ [-5]\ -12\ -5)\ (\ [4]\ 13\ 4)\ (\ [-1]\ -6\ -1)\ (\{2\}\ 1)$
10_{95}: $(\{-6\}\ 2\ 3)\ (\ -2\ -5\ 1\ [1])\ (\ 1\ 3\ -2\ [-1])\ (\{-4\}\ -1\ 1)$
10_{96}: $(\ -1\ -2\ -3\ [-3]\ -2)\ (\ 3\ 5\ [6]\ 1)\ (\ -3\ [-3]\ -1)\ (\ [1])$
10_{97}: $(\{2\}\ -2\ -2\ -2\ -1)\ (\ [-1]\ 2\ 4\ 2\ -1)\ (\{2\}\ 1\ -3\ 1)$
10_{98}: $(\{2\}\ -1\ 3\ 5\ 2)\ (\{2\}\ 2\ -1\ -5\ -2)\ (\{2\}\ -1\ -2\ 3\ 1)\ (\{4\}\ 1\ -1)$
10_{99}: $(\ 4\ [9]\ 4)\ (\ -6\ [-16]\ -6)\ (\ 4\ [14]\ 4)\ (\ -1\ [-6]\ -1)\ (\ [1])$
10_{100}: $(\{-6\}\ 3\ 5\ 1)\ (\{-6\}\ -5\ -13\ -4)\ (\{-6\}\ 4\ 13\ 4)\ (\{-6\}\ -1\ -6\ -1)\ (\{-4\}\ 1)$
10_{101}: $(\{6\}\ -2\ 2\ 4\ 1)\ (\{4\}\ -1\ 5\ -5\ -4)\ (\{4\}\ 1\ -3\ 3)$
10_{102}: $(\ -1\ [0]\ 1\ 1)\ (\ 2\ [3]\ -3\ -2)\ (\ -1\ [-3]\ 3\ 1)\ (\ [1]\ -1)$
10_{103}: $(\ 1\ 0\ -3\ [-1])\ (\ -2\ -3\ 4\ [2])\ (\ 1\ 3\ -3\ [-1])\ (\{-4\}\ -1\ 1)$

10_{104}: (1 [3] 1) (−5 [−11] −5) (4 [13] 4) (−1 [−6] −1) ([1])
10_{105}: (−1 [−1] −1) (1 [3] 2 2 1) ([−2] −2 −2) ({2} 1)
10_{106}: ([2] 2 1) ([−5] −11 −5) ([4] 13 4) ([−1] −6 −1) ({2} 1)
10_{107}: ({−4} −1 −2) (1 3 [2] 2 1) (−2 [−2] −2) ([1])
10_{108}: ([1]) (−2 [−2] 2 2) (1 [3] −3 −1) ([−1] 1)
10_{109}: (3 [7] 3) (−6 [−15] −6) (4 [14] 4) (−1 [−6] −1) ([1])
10_{110}: (−1 [0] 0 −1 −1) (1 [3] 1 3 1) ([−2] −2 −2) ({2} 1)
10_{111}: ({2} −1 2 3 1) ({2} 2 −1 −4 −2) ({2} −1 −2 3 1) ({4} 1 −1)
10_{112}: (−2 −4 [−1]) (−1 0 [−1]) (3 7 [3]) (−1 −5 [−1]) ({−2} 1)
10_{113}: ({2} −3 −3 −1) ([1] 3 2) ([−1] −2 1 1) ({2} 1 −1)
10_{114}: ({−4} −1 −2) (−1 0 [1] 1) (1 2 [−2] −1) (−1 [1])
10_{115}: (1 [3] 1) (1 1 [−1] 1 1) (−2 [−1] −2) ([1])
10_{116}: ([1]) (−2 −4 [−2]) (3 8 [3]) (−1 −5 [−1]) ({−2} 1)
10_{117}: ({−6} 1 1 −1) (−1 −2 2 [1]) (1 2 −2 [−1]) ({−4} −1 1)
10_{118}: ([1]) (−2 [−4] −2) (3 [8] 3) (−1 [−5] −1) ([1])
10_{119}: (−1 [−1] −1) (−1 −1 [2] 1) (1 2 [−2] −1) (−1 [1])
10_{120}: ({6} −3 0 3 1) ({6} 7 −3 −4) ({4} 1 −4 3)
10_{121}: ([1] 1 2 1) ({2} −1 −3 −1) ([−1] −1 2 1) ({2} 1 −1)
10_{122}: (−2 −4 [−1]) (3 [2] 1) (1 1 [−2] −1) (−1 [1])
10_{123}: (−2 [−3] −2) (1 [4] 1) (2 [3] 2) (−1 [−4] −1) ([1])
10_{124}: ({8} 7 8 2) ({8} −21 −14 −1) ({8} 21 7) ({8} −8 −1) ({8} 1)
10_{125}: (3 [7] 3) (−4 [−11] −4) (1 [6] 1) ([−1])
10_{126}: ({−6} 4 7 2) ({−6} −4 −12 −3) ({−6} 1 6 1) ({−4} −1)
10_{127}: ({4} 5 6 2) ({4} −7 −9 −3) ({4} 2 5 1) ({6} −1)
10_{128}: ({6} −2 2 4 1) ({6} 6 −6 −5) ({6} −5 5 1) ({6} 1 −1)
10_{129}: (1 [2] −1 −1) (−1 [−2] 2 1) ([1] −1)
10_{130}: (2 2 −2 [−1]) (−1 −3 3 [1]) ({−4} 1 −1)
10_{131}: ({2} −2 0 2 1) ({2} 2 1 −2 −1) ({4} −1 1)
10_{132}: ({−6} 2 3) ({−6} −1 −4) ({−4} 1)
10_{133}: ({2} −1 2 3 1) ({2} 1 −2 −3 −1) ({6} 1)
10_{134}: ({6} −3 0 3 1) ({6} 7 −3 −4) ({6} −5 4 1) ({6} 1 −1)
10_{135}: (2 [4] 0 −1) (−2 [−5] 1 1) ([2] −1)
10_{136}: (−1 −3 [−2] −1) (2 [3] 1) ([−1])
10_{137}: (−1 [−1] −2 −2 −1) ([2] 2 2) ({2} −1)
10_{138}: (−2 [−3] −3 −2 −1) (1 [6] 5 3) ([−2] −4 −1) ({2} 1)
10_{139}: ({8} 6 6 1) ({8} −21 −13 −1) ({8} 21 7) ({8} −8 −1) ({8} 1)
10_{140}: ([1] 2 4 2) ({2} −1 −4 −1) ({4} 1)
10_{141}: ([2] 2 1) ([−3] −7 −3) ([1] 5 1) ({2} −1)
10_{142}: ({6} −1 4 5 1) ({6} 6 −7 −5) ({6} −5 5 1) ({6} 1 −1)
10_{143}: ({−6} 2 3) ({−6} −3 −8 −2) ({−6} 1 5 1) ({−4} −1)
10_{144}: ([3] 4 2) ([−2] −5 0 1) ({2} 2 −1)
10_{145}: ({−10} 1 1 1 2) ({−8} −1 0 −4) ({−4} 1)
10_{146}: ([1]) (1 1 [−1] −1) (−1 [1])
10_{147}: (−1 [−1] −1) (1 [2] −1 −1) ([−1] 1)
10_{148}: ({−6} 3 5 1) ({−6} −3 −9 −2) ({−6} 1 5 1) ({−4} −1)
10_{149}: ({4} 4 4 1) ({4} −6 −6 −2) ({4} 2 4 1) ({6} −1)
10_{150}: ({2} −2 −1) ({2} 3 4 2) ({2} −1 −4 −1) ({4} 1)
10_{151}: (1 0 −3 [−1]) (1 6 [2]) (−1 −4 [−1]) ({−2} 1)
10_{152}: ({8} 8 10 3) ({8} −22 −17 −2) ({8} 21 8) ({8} −8 −1) ({8} 1)
10_{153}: (−1 1 [6] 3) (1 −1 [−10] −4) ([6] 1) ([−1])
10_{154}: ({6} −4 −2 2 1) ({6} 9 2 −2) ({6} −6) ({6} 1)
10_{155}: (2 4 [3]) (−3 −8 [−3]) (1 5 [1]) ({−2} −1)
10_{156}: ({−4} −1 −2) (2 5 [2]) (−1 −4 [−1]) ({−2} 1)
10_{157}: ({−8} −1 0 2) ({−8} −1 −2 −5) ({−8} 1 3 2) ({−6} −1)

10_{158}: (−2 [−2] 0 1) (2 [6] 1) (−1 [−4] −1) ([1])
10_{159}: ({2} −1 1 1) ({2} −1 −5 −2) ({2} 1 4 1) ({4} −1)
10_{160}: ({2} −1 0 −1 −1) ({2} 3 3 3) ({2} −1 −4 −1) ({4} 1)
10_{161}: ({6} −3 −1 1) ({6} 9 1 −1) ({6} −6) ({6} 1)
10_{162}: (−1 0 3 [3]) (1 1 −5 [−2]) ({−4} −1 2)
10_{163}: ([1] 1 2 1) ([1] 2) ([−1] −3 −1) ({2} 1)
10_{164}: (1 [3] 1) (1 0 [−4] −2) (−1 [2])
10_{165}: ({−6} 1 1 −1) ({−8} −1 −1 0 2) ({−6} 1 −1)

6 Brandt-Lickorish-Millett-Ho polynomials

3_1: −3 2 2
4_1: −3 −2 4 2
5_1: 5 −2 −6 2 2
5_2: 1 −4 −2 4 2
6_1: 1 4 −6 −4 4 2
6_2: 5 −2 −10 0 6 2
6_3: 5 −6 −12 4 8 2
7_1: −7 4 16 −6 −10 2 2
7_2: −3 6 8 −10 −6 4 2
7_3: −3 2 6 −6 −4 4 2
7_4: 1 8 −4 −12 0 6 2
7_5: 1 0 −4 −6 2 6 2
7_6: 5 2 −12 −10 6 8 2
7_7: 5 6 −18 −14 10 10 2
8_1: −3 −6 14 12 −14 −8 4 2
8_2: −7 0 22 2 −20 −4 6 2
8_3: 1 −8 4 12 −8 −6 4 2
8_4: −3 2 14 −2 −16 −2 6 2
8_5: −11 14 26 −16 −24 2 8 2
8_6: 1 −4 2 2 −8 0 6 2
8_7: −7 4 20 −8 −20 2 8 2
8_8: 1 4 6 −10 −14 4 8 2
8_9: −7 4 16 −10 −16 4 8 2
8_{10}: −11 14 22 −22 −22 8 10 2
8_{11}: −3 6 4 −12 −10 6 8 2
8_{12}: 5 2 −8 −12 −4 8 8 2
8_{13}: −3 10 10 −22 −16 10 10 2
8_{14}: 1 8 0 −22 −10 12 10 2
8_{15}: −7 16 10 −32 −16 16 12 2
8_{16}: −3 10 18 −22 −30 8 16 4
8_{17}: −3 6 12 −20 −24 10 16 4
8_{18}: 5 2 12 −26 −36 14 24 6
8_{19}: −11 10 20 −10 −12 2 2
8_{20}: −7 12 12 −14 −8 4 2
8_{21}: −7 8 6 −12 −2 6 2
9_1: 9 −4 −32 14 34 −10 −14 2 2
9_2: 1 −8 −12 24 18 −18 −10 4 2
9_3: 5 −6 −12 16 14 −14 −8 4 2
9_4: 5 −2 −18 12 18 −12 −8 4 2
9_5: 1 −12 2 28 0 −22 −4 6 2
9_6: −3 −2 4 14 −2 −16 −2 6 2
9_7: 5 −6 −8 14 4 −14 −2 6 2
9_8: 1 −8 8 22 −12 −22 2 8 2
9_9: 1 0 0 4 −2 −10 0 6 2
9_{10}: 1 0 −8 4 4 −8 0 6 2
9_{11}: −7 0 18 12 −18 −18 4 8 2
9_{12}: −3 −6 10 14 −12 −16 4 8 2
9_{13}: −3 −2 12 6 −16 −12 6 8 2
9_{14}: −3 −10 20 24 −26 −24 8 10 2
9_{15}: 1 4 −2 −2 −8 −8 6 8 2
9_{16}: −7 12 16 −12 −20 −6 8 8 2
9_{17}: −7 4 24 6 −30 −18 10 10 2
9_{18}: 1 4 2 −8 −12 −4 8 8 2
9_{19}: 1 −4 10 10 −22 −16 10 10 2
9_{20}: −7 4 28 0 −34 −14 12 10 2
9_{21}: −3 −2 16 4 −26 −12 12 10 2
9_{22}: −11 −2 42 12 −48 −22 16 12 2
9_{23}: −3 10 14 −12 −28 −6 14 10 2
9_{24}: −11 10 24 −12 −30 −6 14 10 2
9_{25}: −7 0 30 2 −42 −14 18 12 2
9_{26}: −7 0 30 2 −42 −14 18 12 2
9_{27}: −7 8 30 −12 −44 −8 20 12 2
9_{28}: −11 18 32 −26 −46 −2 22 12 2
9_{29}: −11 2 40 18 −48 −36 14 18 4
9_{30}: −11 6 42 −10 −58 −10 26 14 2
9_{31}: −7 12 36 −22 −58 −4 28 14 2
9_{32}: −3 −2 28 10 −50 −28 22 20 4
9_{33}: −3 2 26 0 −50 −22 24 20 4
9_{34}: −3 −2 28 18 −58 −42 26 28 6
9_{35}: −3 −18 28 34 −24 −28 2 8 2
9_{36}: −11 −2 38 14 −38 −22 10 10 2
9_{37}: −3 −14 30 18 −40 −20 16 12 2
9_{38}: −7 4 24 2 −40 −22 18 18 4
9_{39}: −7 −4 28 14 −40 −28 16 18 4
9_{40}: 5 −2 14 24 −52 −54 24 34 8
9_{41}: −7 −8 38 32 −46 −42 12 18 4
9_{42}: −7 −4 24 12 −20 −10 4 2
9_{43}: −11 2 32 2 −26 −6 6 2
9_{44}: −7 0 22 2 −20 −4 6 2
9_{45}: −7 4 20 −8 −20 2 8 2

9_{46}: 1 −12 18 16 −18 −10 4 2
9_{47}: −3 −10 28 8 −32 −6 12 4
9_{48}: 5 −10 2 0 −10 4 8 2
9_{49}: −7 −4 16 0 −16 2 8 2
10_{1}: 1 8 −20 −24 38 26 −22 −12 4 2
10_{2}: 9 −4 −40 2 58 8 −32 −8 6 2
10_{3}: 1 12 −10 −28 22 24 −16 −10 4 2
10_{4}: 5 −2 −30 6 46 2 −28 −6 6 2
10_{5}: 9 −8 −42 22 60 −12 −36 −2 8 2
10_{6}: −3 6 −4 −12 20 8 −18 −4 6 2
10_{7}: 5 −10 −18 22 30 −16 −24 2 8 2
10_{8}: 5 2 −24 −4 40 6 −26 −6 6 2
10_{9}: 9 −4 −36 16 48 −12 −30 0 8 2
10_{10}: 5 −14 −28 42 46 −34 −34 6 10 2
10_{11}: −3 6 0 −14 10 8 −12 −2 6 2
10_{12}: 1 0 −12 2 24 −6 −20 2 8 2
10_{13}: −3 −2 8 8 −2 −14 −10 6 8 2
10_{14}: 1 −4 −10 20 16 −26 −18 10 10 2
10_{15}: −3 −2 0 12 18 −14 −22 2 8 2
10_{16}: 1 −8 −4 20 14 −18 −18 4 8 2
10_{17}: 9 −4 −32 10 44 −8 −28 0 8 2
10_{18}: 1 −12 −6 32 16 −32 −20 10 10 2
10_{19}: 5 −6 −20 28 30 −30 −26 8 10 2
10_{20}: 5 2 −16 −4 26 4 −20 −4 6 2
10_{21}: 5 2 −20 6 28 −10 −22 2 8 2
10_{22}: 1 0 −4 6 12 −12 −16 4 8 2
10_{23}: 5 −2 −14 10 16 −20 −16 10 10 2
10_{24}: 1 4 2 −4 −2 −8 −8 6 8 2
10_{25}: 1 0 8 8 −14 −24 −4 14 10 2
10_{26}: 5 −6 −8 18 6 −26 −12 12 10 2
10_{27}: 1 −4 6 20 −12 −38 −6 20 12 2
10_{28}: −3 −10 8 34 6 −36 −20 10 10 2
10_{29}: −7 0 18 16 −16 −30 −6 14 10 2
10_{30}: −3 −14 18 44 −16 −52 −10 20 12 2
10_{31}: 1 −4 −10 20 16 −26 −18 10 10 2
10_{32}: −3 −2 12 26 −14 −44 −8 20 12 2
10_{33}: 1 −16 0 44 4 −48 −16 18 12 2
10_{34}: 5 −10 −22 24 40 −16 −30 0 8 2
10_{35}: 1 0 −4 6 12 −12 −16 4 8 2
10_{36}: 5 −6 −20 28 30 −30 −26 8 10 2
10_{37}: −3 6 0 −10 8 −2 −12 4 8 2
10_{38}: −3 −2 12 18 −6 −30 −12 12 10 2
10_{39}: −3 2 10 8 −6 −24 −10 12 10 2
10_{40}: −3 6 16 6 −28 −34 2 22 12 2
10_{41}: −7 −4 32 28 −34 −48 −2 22 12 2
10_{42}: −7 0 30 26 −42 −56 4 30 14 2
10_{43}: −7 −4 28 22 −32 −42 0 22 12 2
10_{44}: −7 −8 38 40 −46 −64 2 30 14 2
10_{45}: −7 −12 48 50 −68 −80 12 40 16 2
10_{46}: 17 −16 −52 32 66 −16 −38 −2 8 2
10_{47}: 17 −20 −50 46 64 −32 −40 4 10 2
10_{48}: 17 −16 −48 34 54 −26 −32 6 10 2
10_{49}: 13 −18 −32 46 36 −44 −28 14 12 2
10_{50}: 5 −18 −10 44 18 −38 −22 10 10 2
10_{51}: 5 −14 −8 36 6 −42 −14 18 12 2
10_{52}: 5 −18 −6 54 14 −54 −24 16 12 2
10_{53}: 1 −20 10 58 −12 −66 −12 26 14 2
10_{54}: 1 −16 −4 46 22 −40 −28 8 10 2
10_{55}: 5 −14 −8 44 14 −48 −22 16 12 2
10_{56}: 1 −16 0 44 4 −48 −16 18 12 2
10_{57}: 1 −8 12 32 −24 −54 −2 28 14 2
10_{58}: −7 −16 26 52 −18 −58 −12 20 12 2
10_{59}: −11 −10 34 50 −32 −68 −6 28 14 2
10_{60}: −11 −18 50 64 −58 −86 4 38 16 2
10_{61}: 9 −16 −34 40 50 −24 −34 0 8 2
10_{62}: 13 −14 −38 42 48 −34 −34 6 10 2
10_{63}: 9 −20 −28 56 36 −50 −30 14 12 2
10_{64}: 13 −14 −38 38 42 −32 −28 8 10 2
10_{65}: 9 −16 −26 44 26 −44 −22 16 12 2
10_{66}: 5 −10 −2 42 −8 −58 −10 26 14 2
10_{67}: 1 −16 0 52 4 −54 −18 18 12 2
10_{68}: 1 −20 −2 64 14 −60 −26 16 12 2
10_{69}: −7 −12 36 52 −52 −78 6 38 16 2
10_{70}: −11 2 36 8 −36 −28 2 16 10 2
10_{71}: −11 2 40 10 −48 −38 8 24 12 2
10_{72}: −7 −4 28 22 −32 −42 0 22 12 2
10_{73}: −11 −6 48 32 −60 −60 10 32 14 2
10_{74}: 1 −16 16 28 −16 −32 −6 14 10 2
10_{75}: −7 −16 54 46 −64 −68 8 32 14 2
10_{76}: −7 12 8 −16 −4 −2 −6 6 8 2
10_{77}: −7 8 10 −2 −6 −18 −8 12 10 2
10_{78}: −11 6 30 16 −26 −42 −6 20 12 2
10_{79}: 21 −22 −52 46 48 −40 −28 14 12 2
10_{80}: 9 −20 −12 56 8 −62 −18 24 14 2
10_{81}: −3 −18 24 56 −36 −76 0 36 16 2
10_{82}: 1 0 −24 16 50 −22 −44 4 16 4
10_{83}: 5 −14 −12 42 18 −54 −30 22 20 4
10_{84}: −7 4 12 16 −6 −46 −20 24 20 4
10_{85}: 1 −4 −26 28 60 −28 −52 2 16 4
10_{86}: 5 −10 −2 38 2 −56 −24 24 20 4
10_{87}: −7 0 14 34 2 −58 −30 22 20 4
10_{88}: −3 −10 28 48 −40 −84 −8 42 24 4
10_{89}: −3 −6 18 46 −26 −82 −14 40 24 4
10_{90}: −3 −6 6 28 8 −42 −28 16 18 4
10_{91}: 9 −12 −32 32 46 −36 −40 12 18 4
10_{92}: 1 −12 6 50 −2 −72 −26 30 22 4
10_{93}: −3 −14 2 52 28 −54 −44 12 18 4
10_{94}: 9 −12 −28 38 44 −42 −42 12 18 4
10_{95}: 5 −10 −6 40 4 −64 −24 30 22 4
10_{96}: −11 −6 36 46 −34 −76 −14 34 22 4
10_{97}: −7 −12 20 60 −8 −80 −28 30 22 4
10_{98}: 9 −24 −6 56 14 −62 −32 22 20 4
10_{99}: 17 −24 −32 48 36 −52 −36 20 20 4
10_{100}: 9 −16 −26 52 50 −50 −50 10 18 4
10_{101}: 5 −18 −2 64 10 −78 −34 28 22 4
10_{102}: 1 −12 −6 40 24 −46 −36 14 18 4
10_{103}: −3 −10 −8 34 26 −40 −34 14 18 4
10_{104}: 5 −6 −20 20 30 −32 −32 14 18 4

10_{105}: -3 -10 20 48 -18 -74 -20 32 22 4
10_{106}: 5 -2 -18 24 28 -38 -34 14 18 4
10_{107}: -3 -6 10 38 -12 -66 -18 32 22 4
10_{108}: 1 -16 -16 60 48 -56 -52 10 18 4
10_{109}: 13 -10 -28 30 24 -46 -28 22 20 4
10_{110}: -3 -14 14 50 -4 -64 -26 24 20 4
10_{111}: 5 -22 -12 64 28 -66 -40 20 20 4
10_{112}: -7 4 -4 24 38 -48 -54 16 26 6
10_{113}: -7 0 22 42 -20 -90 -28 44 32 6
10_{114}: -3 -6 -6 46 32 -68 -52 24 28 6
10_{115}: 5 -14 -4 58 4 -92 -36 42 32 6
10_{116}: 1 -8 0 46 18 -70 -46 26 28 6
10_{117}: 1 -12 -2 50 12 -78 -40 34 30 6
10_{118}: 1 -8 -8 38 24 -62 -44 26 28 6
10_{119}: -3 -10 12 56 4 -86 -42 34 30 6
10_{120}: 1 -12 2 68 8 -100 -44 40 32 6
10_{121}: 5 -6 -12 44 24 -84 -54 38 38 8
10_{122}: -7 4 4 40 32 -78 -66 28 36 8
10_{123}: -7 -4 24 52 -12 -104 -44 48 40 8
10_{124}: 17 -16 -44 28 42 -14 -16 2 2
10_{125}: 13 -18 -28 36 26 -22 -12 4 2
10_{126}: 13 -14 -30 26 26 -16 -10 4 2
10_{127}: 13 -14 -26 24 16 -16 -4 6 2
10_{128}: 5 -10 -10 26 14 -20 -10 4 2
10_{129}: 1 -12 -2 26 4 -20 -4 6 2
10_{130}: 1 -16 4 38 0 -28 -6 6 2
10_{131}: 1 -8 8 22 -12 -22 2 8 2
10_{132}: 5 -18 -14 38 20 -24 -12 4 2
10_{133}: 5 -14 -4 34 4 -26 -6 6 2
10_{134}: 1 -12 2 28 0 -22 -4 6 2
10_{135}: 5 -10 -6 16 -4 -14 4 8 2
10_{136}: -7 -8 14 32 -4 -28 -6 6 2
10_{137}: -7 -12 24 34 -18 -30 0 8 2
10_{138}: -11 -6 36 22 -34 -26 8 10 2
10_{139}: 13 -14 -42 28 42 -14 -16 2 2
10_{140}: 9 -12 -24 32 24 -22 -12 4 2
10_{141}: 5 -10 -10 30 8 -24 -6 6 2
10_{142}: 9 -8 -22 24 20 -18 -10 4 2
10_{143}: 5 -10 -14 24 10 -18 -4 6 2
10_{144}: 9 -4 -20 8 4 -10 4 8 2
10_{145}: 5 -14 -16 36 20 -24 -12 4 2
10_{146}: 1 -8 0 22 -6 -20 2 8 2
10_{147}: -3 -10 12 32 -12 -28 0 8 2
10_{148}: 9 -8 -18 14 10 -12 -2 6 2
10_{149}: 9 -4 -16 2 0 -6 6 8 2
10_{150}: -3 -6 18 22 -18 -24 2 8 2
10_{151}: -3 -2 16 4 -26 -12 12 10 2
10_{152}: 21 -18 -54 28 48 -12 -16 2 2
10_{153}: 9 -16 -18 36 20 -24 -12 4 2
10_{154}: -3 -14 14 38 -6 -30 -6 6 2
10_{155}: 9 -4 -12 16 6 -18 -4 6 2
10_{156}: -3 -6 10 14 -12 -16 4 8 2
10_{157}: 1 8 4 -20 -22 2 16 10 2
10_{158}: -3 2 6 -2 -18 -8 12 10 2
10_{159}: 1 4 -2 -2 -8 -8 6 8 2
10_{160}: -3 -2 8 20 -4 -22 -4 6 2
10_{161}: -3 6 12 -8 -10 2 2
10_{162}: 5 -14 -8 24 0 -18 2 8 2
10_{163}: 5 -6 -4 20 -14 -28 8 16 4
10_{164}: 5 -14 -12 34 2 -32 0 14 4
10_{165}: 1 -12 6 42 -10 -42 -2 14 4

7 Kauffman polynomials

3_1: ({2} -2 -1) ({3} 1 1) ({2} 1 1)
4_1: (-1 [-1] -1) (-1 $*$ -1) (1 [2] 1) (1 $*$ 1)
5_1: ({4} 3 2) ({5} -2 -1 1) ({4} -4 -3 1) ({5} 1 1) ({4} 1 1)
5_2: ({2} -1 1 1) ({5} -2 -2) ({2} 1 -1 -2) ({3} 1 2 1) ({4} 1 1)
6_1: (-1 [0] 1 1) ({1} 2 2) (1 [0] -4 -3) (1 $*$ -2 -3) ([1] 2 1) ({1} 1 1)
6_2: ([2] 2 1) ({3} -1 -1) ([-3] -6 -2 1) ({1} -2 0 2) ([1] 3 2) ({1} 1 1)
6_3: (1 [3] 1) (-1 -2 $*$ -2 -1) (-3 [-6] -3) (1 1 $*$ 1 1) (2 [4] 2) (1 $*$ 1)
7_1: ({6} -4 -3) ({7} 3 1 -1 1) ({6} 10 7 -2 1) ({7} -4 -3 1) ({6} -6 -5 1) ({7} 1 1) ({6} 1 1)
7_2: ({2} -1 0 -1 -1) ({7} 3 3) ({2} 1 0 3 4) ({3} 1 -1 -6 -4) ({4} 1 -3 -4) ({5} 1 2 1) ({6} 1 1)
7_3: ({4} 1 -2 -2) ({7} 3 1 -2) ({4} -3 4 6 -1) ({5} -2 -4 -1 1) ({4} 1 -3 -3 1) ({5} 1 2 1) ({6} 1 1)
7_4: ({4} 2 0 -1) ({7} 4 4) ({2} 1 -4 -3 2) ({3} 2 -2 -8 -4) ({4} 3 0 -3) ({5} 2 3 1) ({6} 1 1)
7_5: ({4} 2 0 -1) ({5} -1 1 1 -1) ({4} -3 0 1 -2) ({5} -1 -4 -2 1) ({4} 1 -1 0 2) ({5} 1 3 2) ({6} 1 1)
7_6: ([1] 1 2 1) ({1} 1 2 0 -1) ([-2] -4 -4 -2) ({1} -4 -6 -1 1) ([1] 1 2 2) ({1} 2 4 2)

({2} 1 1)
7_7: (1 2 [2]) (2 3 ∗ 1) (−2 −6 [−7] −3) (−4 −8 ∗ −3 1) (1 2 [4] 3) (2 5 ∗ 3) (1 [1])
8_1: (−1 [0] 0 −1 −1) ({3} −3 −3) (1 [0] 0 7 6) (1 ∗ −1 5 7) ([1] −2 −8 −5) ({1} 1 −4 −5) ({2} 1 2 1) ({3} 1 1)
8_2: ({2} −3 −3 −1) ({3} 1 1 −1 −1) ({2} 7 12 3 −1 1) ({3} 3 −1 −2 2) ({2} −5 −12 −5 2) ({3} −4 −2 2) ({2} 1 3 2) ({3} 1 1)
8_3: (1 0 [−1] 0 1) (−4 ∗ −4) (−3 1 [8] 1 −3) (−2 8 ∗ 8 −2) (1 −2 [−6] −2 1) (1 −4 ∗ −4 1) (1 [2] 1) (1 ∗ 1)
8_4: (1 0 [−2] −2) (2 1 ∗ −1) (1 −3 −1 [10] 7) (2 −5 −3 ∗ 4) (3 −3 [−11] −5) (3 −1 ∗ −4) (2 [3] 1) (1 ∗ 1)
8_5: ({2} −4 −5 −2) ({3} 3 7 4) ({2} 8 15 4 −2 1) ({5} −10 −8 2) ({2} −5 −15 −7 3) ({3} −3 1 4) ({2} 1 4 3) ({3} 1 1)
8_6: ([2] 1 −1 −1) ({1} −1 −3 −1 1) ([−3] −2 6 3 −2) ({1} −1 5 2 −4) ([1] 0 −6 −4 1) ({1} 1 −2 −1 2) ({2} 1 3 2) ({3} 1 1)
8_7: (−2 −4 [−1]) (−1 0 2 2 ∗ 1) (−2 4 12 [6]) (1 −1 −2 −3 ∗ −3) (2 −3 −12 [−7]) (2 0 −1 ∗ 1) (2 4 [2]) ({−3} 1 1)
8_8: (−1 −1 [2] 1) (2 3 1 ∗ −1 −1) (4 5 [−1] −2) (−3 −5 −3 ∗ 0 1) (−6 −9 [−1] 2) (1 0 1 ∗ 2) (2 4 [2]) ({−3} 1 1)
8_9: (−2 [−3] −2) (1 1 ∗ 1 1) (−2 4 [12] 4 −2) (−4 −1 ∗ −1 −4) (1 −4 [−10] −4 1) (2 0 ∗ 0 2) (2 [4] 2) (1 ∗ 1)
8_{10}: (−3 −6 [−2]) (−1 2 6 5 ∗ 2) (−1 6 12 [5]) (1 −3 −9 −8 ∗ −3) (2 −5 −13 [−6]) (3 3 1 ∗ 1) (3 5 [2]) ({−3} 1 1)
8_{11}: ([1] −1 −2 −1) ({3} 1 3 2) ([−2] 0 6 2 −2) ({1} −3 −2 −3 −4) ([1] −2 −7 −3 1) ({1} 2 1 1 2) ({2} 2 4 2) ({3} 1 1)
8_{12}: (1 1 [1] 1 1) (1 0 ∗ 0 1) (−2 −2 [0] −2 −2) (−3 −3 ∗ −3 −3) (1 −1 [−4] −1 1) (2 2 ∗ 2 2) (2 [4] 2) (1 ∗ 1)
8_{13}: ({−4} −1 −2) (2 4 3 ∗ 1) (5 7 [0] −2) (−3 −7 −9 ∗ −4 1) (−6 −11 [−2] 3) (1 1 4 ∗ 4) (2 5 [3]) ({−3} 1 1)
8_{14}: ([1]) ({1} 1 3 3 1) ([−2] −1 3 1 −1) ({1} −3 −6 −8 −5) ([1] −1 −7 −4 1) ({1} 2 3 4 3) ({2} 2 5 3) ({3} 1 1)
8_{15}: ({4} 1 −3 −4 −1) ({7} 6 8 2) ({4} −2 5 8 0 −1) ({5} −2 −11 −14 −5) ({4} 1 −5 −10 −3 1) ({5} 2 5 6 3) ({6} 3 6 3) ({7} 1 1)
8_{16}: ({−4} −1 −2) (2 4 3 ∗ 1) (−1 4 10 [5]) (1 −5 −10 −6 ∗ −2) (3 −7 −18 [−8]) (5 3 −1 ∗ 1) (5 8 [3]) ({−3} 2 2)
8_{17}: (−1 [−1] −1) (1 2 ∗ 2 1) (−1 3 [8] 3 −1) (−4 −6 ∗ −6 −4) (1 −6 [−14] −6 1) (3 2 ∗ 2 3) (4 [8] 4) (2 ∗ 2)
8_{18}: (1 [3] 1) (1 ∗ 1) (3 [6] 3) (−4 −9 ∗ −9 −4) (1 −9 [−20] −9 1) (4 3 ∗ 3 4) (6 [12] 6) (3 ∗ 3)
8_{19}: ({6} −5 −5 −1) ({7} 5 5) ({6} 10 10) ({7} −5 −5) ({6} −6 −6) ({7} 1 1) ({6} 1 1)
8_{20}: (−2 −4 [−1]) (3 5 3 ∗ 1) (4 6 [2]) ({−5} −4 −7 −3) ({−4} −4 −4) ({−5} 1 2 1) ({−4} 1 1)
8_{21}: ({2} −3 −3 −1) ({3} 2 4 2) ({2} 3 5 0 −2) ({3} −1 −6 −5) ({4} −2 −1 1) ({3} 1 3 2) ({4} 1 1)
9_1: ({8} 5 4) ({9} −4 −1 1 −1 1) ({8} −20 −14 3 −2 1) ({9} 10 6 −3 1) ({8} 21 16 −4 1) ({9} −6 −5 1) ({8} −8 −7 1) ({9} 1 1) ({8} 1 1)
9_2: ({2} −1 0 0 1 1) ({9} −4 −4) ({2} 1 0 0 −6 −7) ({3} 1 −1 1 13 10) ({4} 1 −2 8 11) ({5} 1 −3 −10 −6) ({6} 1 −5 −6) ({7} 1 2 1) ({8} 1 1)
9_3: ({6} −1 3 3) ({9} −4 −1 1 −2) ({6} 6 −9 −11 3 −1) ({7} 3 9 4 −1 1) ({6} −5 9 11 −2 1) ({7} −4 −8 −3 1) ({6} 1 −5 −5 1) ({7} 1 2 1) ({8} 1 1)
9_4: ({4} 1 0 2 2) ({9} −4 −1 3) ({4} −3 1 −7 −10 1) ({5} −2 4 12 2 −4) ({4} 1 −2 11 11 −3) ({5} 1 −3 −8 −3 1) ({6} 1 −5 −5 1) ({7} 1 2 1) ({8} 1 1)
9_5: ({4} 1 −1 0 1) ({9} −6 −6) ({2} 1 −3 3 4 −3) ({3} 2 −4 1 18 11) ({4} 3 −7 −3 7) ({5} 3 −5 −14 −6) ({6} 3 −2 −5) ({7} 2 3 1) ({8} 1 1)
9_6: ({6} −3 −1 1) ({7} 2 −1 −2 0 −1) ({6} 7 1 −3 1 −2) ({9} 8 6 −1 1) ({6} −5 1 2 −2 2)

({7} −3 −10 −5 2) ({6} 1 −3 −2 2) ({7} 1 3 2) ({8} 1 1)

9_{7}: ({4} 2 1 1 1) ({5} −1 −1 −3 −2 1) ({4} −3 −2 −4 −2 3) ({5} −1 2 11 5 −3) ({4} 1 0 7 2 −6) ({5} 1 −1 −9 −6 1) ({6} 1 −3 −2 2) ({7} 1 3 2) ({8} 1 1)

9_{8}: (−1 [−1] 0 2 1) (−2 ∗ −3 −1 −1 −1) (4 [7] 2 −3 −2) (8 ∗ 11 2 0 1) (−4 [−6] −4 0 2) (−8 ∗ −13 −3 2) (1 [−1] 0 2) (2 ∗ 4 2) ([1] 1)

9_{9}: ({6} −2 1 2) ({7} 1 −2 0 2 −1) ({6} 7 −3 −6 3 −1) ({7} 1 5 0 −3 1) ({6} −5 3 2 −4 2) ({7} −3 −8 −2 3) ({6} 1 −3 −1 3) ({7} 1 3 2) ({8} 1 1)

9_{10}: ({6} −2 1 2) ({9} −4 0 4) ({4} −2 7 −2 −11) ({5} −3 3 9 −1 −4) ({4} 1 −7 3 9 −2) ({5} 2 −3 −7 −1 1) ({6} 3 −1 −3 1) ({7} 2 3 1) ({8} 1 1)

9_{11}: ({−8} −2 −3 −1 −1) ({−11} −1 2 2 −2 −1) ({−10} −1 4 6 5 4) ({−11} 1 −3 −3 9 8) ({−10} 2 −4 −7 −5 −4) ({−9} 3 −1 −12 −8) ({−8} 3 1 −1 1) ({−7} 2 4 2) ({−6} 1 1)

9_{12}: ([1] 0 −1 −2 −1) ({3} −2 −4 −1 1) ([−2] −2 3 7 4) ({1} −3 4 13 3 −3) ([1] −1 −1 −5 −6) ({1} 2 −3 −11 −5 1) ({2} 2 0 0 2) ({3} 2 4 2) ({4} 1 1)

9_{13}: ({6} −3 −1 1) ({7} 1 −3 −2 2) ({4} −2 8 6 −2 2) ({5} −3 1 9 2 −3) ({4} 1 −7 −4 −1 −5) ({5} 2 −2 −9 −4 1) ({6} 3 1 0 2) ({7} 2 4 2) ({8} 1 1)

9_{14}: (−1 −2 −1 [1]) ({−5} −3 −5 −2) (4 10 8 [0] −2) (9 15 2 ∗ −3 1) (−4 −9 −12 [−4] 3) (−8 −16 −4 ∗ 4) (1 0 3 [4]) ({−5} 2 5 3) ({−4} 1 1)

9_{15}: (−1 −1 1 1 [1]) ({−9} 2 1 −1 1 1) (3 2 −2 −3 [−2]) ({−9} −3 −1 5 0 −3) (−5 −4 0 0 [1]) ({−9} 1 −3 −7 −1 2) ({−8} 2 1 1 2) ({−7} 2 4 2) ({−6} 1 1)

9_{16}: ({6} −4 −3) ({7} 4 4 2 2) ({6} 8 6 1 2 −1) ({7} −2 −1 −5 −5 1) ({6} −5 −4 −8 −6 3) ({7} −2 −8 −1 5) ({6} 1 −1 3 5) ({7} 1 4 3) ({8} 1 1)

9_{17}: (−2 [−3] −2) (−1 ∗ 1 3 1) (5 [13] 9 −1 −2) (6 ∗ 6 −4 −3 1) (−4 [−12] −14 −3 3) (−7 ∗ −13 −2 4) (1 [1] 4 4) (2 ∗ 5 3) ([1] 1)

9_{18}: ({4} 1 −1 0 1) ({7} 2 0 0 2) ({4} −2 3 0 −2 3) ({5} −2 −4 1 0 −3) ({4} 1 −4 −2 −2 −5) ({5} 2 1 −5 −3 1) ({6} 3 2 1 2) ({7} 2 4 2) ({8} 1 1)

9_{19}: (1 1 [0] −1) (1 −1 ∗ −3 −1) (−2 −3 [3] 8 4) (−3 1 ∗ 10 4 −2) (1 0 [−4] −11 −8) (2 −1 ∗ −11 −7 1) (2 [2] 3 3) (2 ∗ 5 3) ([1] 1)

9_{20}: ({2} −2 −2 −2 −1) ({7} 2 2) ({2} 5 11 10 3 −1) ({3} 6 5 −7 −5 1) ({2} −4 −11 −16 −6 3) ({3} −7 −12 0 5) ({2} 1 1 5 5) ({3} 2 5 3) ({4} 1 1)

9_{21}: ({−8} −1 −1 0 −1) ({−9} 2 0 −3 −1) (3 5 6 3 [−1]) ({−9} −3 0 9 2 −4) (−5 −7 −9 −6 [1]) ({−9} 1 −3 −10 −3 3) ({−8} 2 2 4 4) ({−7} 2 5 3) ({−6} 1 1)

9_{22}: (−2 [−4] −4 −1) (−2 ∗ −2 1 1) (5 [16] 17 5 −1) (7 ∗ 10 −2 −4 1) (−4 [−15] −23 −9 3) (−7 ∗ −16 −4 5) (1 [2] 7 6) (2 ∗ 6 4) ([1] 1)

9_{23}: ({4} 1 −2 −2) ({7} 4 4 1 1) ({4} −2 4 6 3 3) ({5} −2 −6 −2 0 −2) ({4} 1 −4 −8 −10 −7) ({5} 2 2 −6 −5 1) ({6} 3 4 4 3) ({7} 2 5 3) ({8} 1 1)

9_{24}: (−1 [−3] −5 −2) (1 2 ∗ 2 3 2) (−1 2 [9] 10 4) (−4 −3 ∗ 1 −3 −3) (1 −5 [−11] −10 −5) (3 −1 ∗ −7 −2 1) (4 [5] 3 2) (3 ∗ 5 2) ([1] 1)

9_{25}: ([1] −1 −3 −3 −1) ({3} −1 −1 1 1) ([−2] 2 13 13 4) ({1} −2 3 5 −2 −2) ([1] −3 −15 −18 −7) ({1} 2 −3 −10 −4 1) ({2} 3 6 6 3) ({3} 3 6 3) ({4} 1 1)

9_{26}: ({−6} −1 −3 −3) ({−7} 1 1 −1 −1) (−1 2 11 13 [5]) (−4 −2 7 3 ∗ −2) (1 −5 −14 −16 [−8]) (3 −1 −11 −6 ∗ 1) (4 6 5 [3]) ({−5} 3 6 3) ({−4} 1 1)

9_{27}: (−1 [−2] −3 −1) (1 2 ∗ 2 2 1) (−1 3 [12] 12 4) (−4 −4 ∗ 0 −2 −2) (1 −5 [−16] −17 −7) (3 0 ∗ −8 −4 1) (4 [7] 6 3) (3 ∗ 6 3) ([1] 1)

9_{28}: ([−1] −5 −4 −1) (1 ∗ 3 6 6 2) ([5] 14 12 2 −1) (−2 ∗ −4 −7 −9 −4) ([−7] −19 −17 −4 1) (1 ∗ −3 −5 2 3) ([3] 7 8 4) ({1} 3 6 3) ({2} 1 1)

9_{29}: (−2 −5 [−3] −1) (2 2 −1 ∗ −1) (8 17 [12] 3) (1 −5 −1 14 ∗ 9) (3 −13 −24 [−11] −3) (6 −8 −24 ∗ −10) (8 6 [−1] 1) (6 9 ∗ 3) (2 [2])

9_{30}: (−1 −4 [−4] −2) (1 2 1 ∗ 1 1) (5 16 [17] 5 −1) (−2 −3 0 ∗ −2 −3) (−7 −22 [−23] −7 1) (1 −3 −9 ∗ −2 3) (3 8 [10] 5) (3 7 ∗ 4) (1 [1])

9_{31}: ([−1] −4 −2) (1 ∗ 3 5 3) ([5] 15 13 3) (−2 ∗ −3 −5 −8 −4) ([−7] −21 −23 −8 1) (1 ∗ −3 −7 1 4) ([3] 8 11 6) ({1} 3 7 4) ({2} 1 1)

9_{32}: (−1 −2 −1 [1]) ({−7} 1 0 −2 −1) (−1 4 12 10 [3]) (−3 2 9 3 ∗ −1) (1 −6 −18 −19 [−8]) (3 −5 −18 −9 ∗ 1) (5 7 6 [4]) ({−5} 5 10 5) ({−4} 2 2)

9_{33}: ({−4} −1 −2) ({−5} 1 1) (4 10 [9] 3) (−2 1 5 ∗ −1 −3) (−6 −16 [−20] −9 1)

(1 −6 −16 ∗ −5 4) (3 5 [9] 7) (4 10 ∗ 6) (2 [2])
9_{34}: (−1 [−1] −1) (−1 ∗ −1) (3 10 [11] 4) (−1 5 12 ∗ 4 −2) (−7 −19 [−23] −10 1)
(1 −11 −26 ∗ −10 4) (4 5 [9] 8) (6 14 ∗ 8) (3 [3])
9_{35}: ({6} −3 −1 1) ({7} −1 −9 −8) ({2} 1 −2 12 16 1) ({3} 2 −6 3 23 12) ({4} 3 −15 −15 3)
({5} 4 −8 −18 −6) ({6} 5 1 −4) ({7} 3 4 1) ({8} 1 1)
9_{36}: ({−8} −2 −4 −3 −2) ({−11} −1 1 1 −2 −1) ({−10} −1 7 15 12 5) ({−11} 1 −2 0 9 6)
({−10} 2 −7 −17 −12 −4) ({−9} 3 −4 −14 −7) ({−8} 4 4 1 1) ({−7} 3 5 2) ({−6} 1 1)
9_{37}: (1 0 [−2] −2) (−5 ∗ −7 −2) (−2 1 [12] 14 5) (−2 6 ∗ 13 3 −2) (1 −3 [−13] −17 −8)
(2 −4 ∗ −13 −6 1) (3 [5] 5 3) (3 ∗ 6 3) ([1] 1)
9_{38}: ({6} −4 −3) ({7} 3 1 −1 1) ({4} −1 9 10 3 3) ({5} −2 −2 5 3 −2) ({4} 1 −10 −
15 −10 −6) ({5} 3 −4 −15 −7 1) ({6} 6 6 3 3) ({7} 5 9 4) ({8} 2 2)
9_{39}: ({−8} −1 −2 −2 −2) ({−9} 1 −1 −3 −1) (3 9 12 5 [−1]) ({−9} −2 2 12 5 −3)
(−6 −13 −15 −7 [1]) ({−9} 1 −7 −18 −7 3) ({−8} 3 3 5 5) ({−7} 4 9 5) ({−6} 2 2)
9_{40}: ([2] 2 1) ({3} −1 −1) ({2} 3 7 4) ({1} 6 14 6 −2) ([−7] −17 −20 −9 1)
(1 ∗ −15 −32 −12 4) ([5] 4 7 8) ({1} 8 17 9) ({2} 4 4)
9_{41}: ({−6} −1 −3 −3) ({−5} −2 −4 −2) (3 13 17 [6] −1) (9 19 6 ∗ −3 1)
(−3 −12 −23 [−11] 3) (−10 −26 −11 ∗ 5) (1 −1 5 [7]) ({−5} 3 9 6) ({−4} 2 2)
9_{42}: (−2 [−3] −2) (−2 ∗ −2) (6 [12] 6) (6 ∗ 6) (−5 [−10] −5) (−5 ∗ −5) (1 [2] 1)
(1 ∗ 1)
9_{43}: ({2} −3 −4 −3 −1) ({7} 1 1) ({2} 7 14 9 2) ({3} 3 1 −2) ({2} −5 −13 −8)
({3} −4 −3 1) ({2} 1 3 2) ({3} 1 1)
9_{44}: (−1 [−2] −3 −1) (−1 ∗ −1 1 1) (1 [6] 10 5) (2 ∗ 4 −1 −3) ([−3] −10 −7)
({1} −3 −2 1) ([1] 3 2) ({1} 1 1)
9_{45}: ({−8} −1 −2 −2 −2) ({−9} 2 2) ({−8} 4 7 6 3) ({−9} −3 −5 −1 1) ({−8} −6 −10 −4)
({−9} 1 0 0 1) ({−8} 2 4 2) ({−7} 1 1)
9_{46}: (−1 −1 1 [2]) ({−5} −4 −6 −2) ({−6} 6 9 3) ({−5} 7 8 1) ({−6} −5 −9 −4)
({−5} −5 −5) ({−6} 1 2 1) ({−5} 1 1)
9_{47}: ([1] −1 −2 −1) ({1} −2 −5 −3) ([5] 11 9 3) (−2 ∗ 1 6 3) ([−9] −16 −7)
(1 ∗ −4 −4 1) ([3] 6 3) ({1} 2 2)
9_{48}: ({−6} 2 3) ({−7} −4 −5 −1) (−1 2 2 [−1]) ({−7} 3 5 −3 −5) (−6 −5 [1])
({−5} −1 2 3) ({−6} 1 4 3) ({−5} 1 1)
9_{49}: ({6} −4 −3) ({7} 2 −2 −4) ({4} −2 9 10 −1) ({5} −3 −3 3 3) ({4} 1 −8 −9)
({5} 2 1 −1) ({6} 3 4 1) ({7} 1 1)
10_{1}: (−1 [0] 0 0 1 1) ({5} 4 4) (1 [0] 0 0 −11 −10) (1 ∗ −1 1 −11 −14) ([1] −2 3 21 15)
({1} 1 −3 12 16) ({2} 1 −4 −12 −7) ({3} 1 −6 −7) ({4} 1 2 1) ({5} 1 1)
10_{2}: ({4} 4 4 1) ({5} −2 −1 1 −1 −1) ({4} −14 −21 −5 0 −1 1) ({5} −3 3 2 −2 2)
({4} 16 33 11 −4 2) ({5} 10 2 −6 2) ({4} −7 −18 −9 2) ({5} −6 −4 2) ({4} 1 3 2) ({5} 1 1)
10_{3}: (1 0 [0] 1 0 −1) ({1} 6 6) (−3 1 [0] −12 −2 6) (−2 4 ∗ −15 −18 3) (1 −2 [6] 18 4 −5)
(1 −3 ∗ 15 15 −4) (1 [−4] −10 −4 1) (1 ∗ −6 −6 1) ([1] 2 1) ({1} 1 1)
10_{4}: (1 0 [0] 2 2) (−3 ∗ −1 2) (1 −3 0 [1] −16 −13) (2 −4 8 ∗ 7 −7) (3 −6 [4] 29 16)
(3 −10 ∗ −2 11) (3 [−7] −17 −7) (3 ∗ −3 −6) ([2] 3 1) ({1} 1 1)
10_{5}: ({−6} 3 5 1) ({−11} −1 0 −1 −3 −2 −1) ({−10} −2 1 −9 −22 −10) ({−11} 1 −
1 3 6 7 6) ({−10} 2 −2 10 32 18) ({−9} 2 −4 −3 −2 −5) ({−8} 2 −7 −20 −11)
({−7} 2 −2 −3 1) ({−6} 2 4 2) ({−5} 1 1)
10_{6}: ({2} −3 −2 1 1) ({3} 2 3 0 0 1) ({2} 7 5 −10 −5 1 −2) ({5} −10 −2 4 −4)
({2} −5 −3 18 12 −3 1) ({3} −3 8 5 −4 2) ({2} 1 −2 −12 −7 2) ({3} 1 −4 −3 2)
({4} 1 3 2) ({5} 1 1)
10_{7}: ([1] 0 1 2 1) ({5} −2 −5 −3) ([−2] −2 −4 −10 −3 3) ({1} −3 1 6 10 8)
([1] −1 8 20 6 −4) ({1} 2 −2 −2 −6 −8) ({2} 2 −5 −15 −7 1) ({3} 2 −1 −1 2)
({4} 2 4 2) ({5} 1 1)
10_{8}: ([3] 3 0 −1) ({3} −1 1 2) ([−13] −18 3 5 −2 1) ({1} −6 5 2 −7 2) ([16] 30 1 −10 3)
({1} 11 −1 −8 4) ([−7] −17 −6 4) ({1} −6 −3 3) ([1] 3 2) ({1} 1 1)
10_{9}: ([3] 4 2) (−1 ∗ −2 −2 0 1) (3 [−8] −22 −8 1 −2) (7 ∗ 4 5 4 −4) (−4 [10] 31 13 −3 1)
(−8 ∗ −2 0 −4 2) (1 [−8] −18 −7 2) (2 ∗ −2 −2 2) ([2] 4 2) ({1} 1 1)

10_{10}: (1 2 1 [1]) ({−7} −3 −6 −4 −1) (−8 −12 −4 [−2] −2) (7 17 17 3 ∗ −3 1) (15 26 5 [−3] 3) (−5 −10 −16 −7 ∗ 4) (−10 −21 −7 [4]) ({−7} 1 −1 2 4) ({−6} 2 5 3) ({−5} 1 1)

10_{11}: (−2 [−1] 1 0 −1) (1 ∗ 5 2 −2) (7 [2] −12 0 5 −2) (1 ∗ −16 −5 9 −3) (−5 [−1] 16 5 −6 1) (−3 ∗ 11 5 −7 2) (1 [−2] −10 −4 3) (1 ∗ −4 −2 3) ([1] 3 2) ({1} 1 1)

10_{12}: (2 2 −2 [−1]) (2 0 −3 −1 1 ∗ 1) (2 −8 −12 2 [4]) (−3 −1 4 5 0 ∗ −3) (−5 8 23 4 [−6]) (1 −3 0 −1 −4 ∗ 1) (2 −5 −14 −5 [2]) ({−7} 2 −1 −1 2) ({−6} 2 4 2) ({−5} 1 1)

10_{13}: (1 0 [−1] −1 −1 −1) (−2 ∗ 0 1 −1) (−2 1 [4] −1 2 4) (−2 3 ∗ 0 1 6) (1 −3 [−3] 6 1 −4) (2 −3 ∗ −2 −4 −7) (3 [0] −9 −5 1) (3 ∗ 1 0 2) ([2] 4 2) ({1} 1 1)

10_{14}: ({2} −1 1 1) ({3} −1 −4 −2 2 1) ({2} 4 −1 −9 −3 0 −1) ({3} 6 10 8 0 −4) ({2} −4 2 16 5 −4 1) ({3} −7 −9 −9 −4 3) ({2} 1 −5 −14 −4 4) ({3} 2 1 3 4) ({4} 2 5 3) ({5} 1 1)

10_{15}: (−2 −3 [1] 1) (−1 1 3 0 ∗ −3 −2) (−1 7 8 [−7] −7) (1 −2 −3 1 ∗ 8 7) (2 −7 −8 [16] 15) (3 −3 −5 ∗ −4 −5) (4 −1 [−15] −10) (3 0 ∗ −2 1) (2 [4] 2) (1 ∗ 1)

10_{16}: (−1 [1] 2 0 −1) ({3} −4 −4) (4 [−2] −11 2 5 −2) (5 ∗ 0 8 10 −3) (−4 [4] 17 2 −6 1) (−7 ∗ −2 −4 −7 2) (1 [−6] −13 −3 3) (2 ∗ −1 0 3) ([2] 4 2) ({1} 1 1)

10_{17}: (2 [5] 2) (1 0 −3 ∗ −3 0 1) (3 −8 [−22] −8 3) (−3 2 6 ∗ 6 2 −3) (−6 11 [34] 11 −6) (1 −5 0 ∗ 0 −5 1) (2 −7 [−18] −7 2) (2 −2 ∗ −2 2) (2 [4] 2) (1 ∗ 1)

10_{18}: (−1 [0] 1 1) (−2 ∗ −4 −4 −2) (4 [1] −8 −3 1 −1) (6 ∗ 11 14 5 −4) (−4 [1] 17 6 −5 1) (−7 ∗ −10 −12 −6 3) (1 [−5] −15 −5 4) (2 ∗ 1 3 4) ([2] 5 3) ({1} 1 1)

10_{19}: (1 [3] 1) (−2 −4 ∗ −2 1 1) (−9 [−13] 0 3 −1) (7 13 ∗ 11 0 −4 1) (16 [23] −4 −8 3) (−5 −8 ∗ −15 −7 5) (−10 [−19] −3 6) (1 −1 ∗ 3 5) (2 [5] 3) (1 ∗ 1)

10_{20}: ([2] 1 0 1 1) ({1} −1 −1 3 2 −1) ([−3] −2 0 −9 −5 3) ({1} −1 2 −8 −4 7) ([1] 0 3 17 9 −4) ({1} 1 −1 9 3 −8) ({2} 1 −2 −12 −8 1) ({3} 1 −4 −3 2) ({4} 1 3 2) ({5} 1 1)

10_{21}: ({2} −1 2 3 1) ({5} −2 −1 3 2) ({2} 4 −3 −14 −5 0 −2) ({3} 5 3 2 0 −4) ({2} −4 4 20 9 −2 1) ({3} −7 −3 0 −2 2) ({2} 1 −6 −14 −5 2) ({3} 2 −1 −1 2) ({4} 2 4 2) ({5} 1 1)

10_{22}: (−2 [−1] 2 2) (−1 ∗ 1 1 −1) (−2 6 [6] −12 −6 4) (−3 7 ∗ 0 −4 6) (1 −6 [−1] 16 6 −4) (2 −6 ∗ −1 0 −7) (3 [−2] −12 −6 1) (3 ∗ 0 −1 2) ([2] 4 2) ({1} 1 1)

10_{23}: ({−6} 2 3) ({−9} 2 1 −2 −2 −1) (3 −6 −13 −1 [3]) (−3 −2 3 9 5 ∗ −2) (−5 5 20 3 [−7]) (1 −2 −2 −9 −9 ∗ 1) (2 −3 −13 −5 [3]) ({−7} 2 1 3 4) ({−6} 2 5 3) ({−5} 1 1)

10_{24}: ([1] −1 −1 1 1) ({3} 2 4 0 −2) ([−2] 2 5 −5 −2 4) ({1} −2 0 −7 −2 7) ([1] −3 −5 6 3 −4) ({1} 2 −2 1 −2 −7) ({2} 3 1 −8 −5 1) ({3} 3 1 0 2) ({4} 2 4 2) ({5} 1 1)

10_{25}: ({2} −2 0 2 1) ({3} 1 0 −2 0 1) ({2} 5 4 −4 1 3 −1) ({3} 4 2 3 2 −3) ({2} −4 −3 3 −5 −6 1) ({3} −6 −7 −9 −5 3) ({2} 1 −3 −8 1 5) ({3} 2 2 5 5) ({4} 2 5 3) ({5} 1 1)

10_{26}: (−1 [1] 3 2) (−1 ∗ −1 −2 −2) (−1 4 [1] −12 −4 4) (−3 5 ∗ 5 4 7) (1 −7 [−2] 14 4 −4) (3 −7 ∗ −9 −6 −7) (5 [−1] −12 −5 1) (5 ∗ 4 1 2) ([3] 5 2) ({1} 1 1)

10_{27}: ({−6} 1 1 −1) ({−9} 1 0 −2 −2 −1) (3 −1 −4 4 [4]) (−2 1 7 11 5 ∗ −2) (−6 −3 7 −3 [−7]) (1 −6 −12 −14 −8 ∗ 1) (3 −1 −9 −2 [3]) ({−7} 4 6 6 4) ({−6} 3 6 3) ({−5} 1 1)

10_{28}: (1 0 −3 [−1]) (−4 −6 −2 1 ∗ 1) (−5 0 10 [4] −1) (8 18 13 −2 ∗ −4 1) (12 11 −12 [−8] 3) (−5 −12 −18 −6 ∗ 5) (−9 −16 −1 [6]) ({−7} 1 0 4 5) ({−6} 2 5 3) ({−5} 1 1)

10_{29}: (−2 [−2] −1 −1 −1) ({1} 2 0 −2) (5 [6] 0 4 4 −1) (4 ∗ 2 7 6 −3) (−4 [−4] 3 −5 −7 1) (−6 ∗ −8 −12 −7 3) (1 [−3] −9 0 5) (2 ∗ 2 5 5) ([2] 5 3) ({1} 1 1)

10_{30}: ({2} −2 −1) ({3} −1 −5 −6 −2) ([−1] 5 9 2 1 2) ({1} −3 4 16 18 9) ([1] −7 −11 2 2 −3) ({1} 3 −6 −19 −20 −10) ({2} 5 2 −11 −7 1) ({3} 5 7 5 3) ({4} 3 6 3) ({5} 1 1)

10_{31}: (−1 −1 [2] 1) (2 2 −2 ∗ −4 −2) (3 −2 [−10] −3 2) (−3 −3 6 ∗ 15 7 −2) (−5 3 [20] 5 −7) (1 −2 −4 ∗ −12 −10 1) (2 −3 [−14] −6 3) (2 1 ∗ 3 4) (2 [5] 3) (1 ∗ 1)

10_{32}: (−1 [−1] −1) (1 1 ∗ −1 −2 −1) (−1 4 [7] 0 0 2) (−3 0 ∗ 7 13 9) (1 −6 [−11] 2 3 −3)

(3 −4 ∗ −15 −18 −10) (5 [3] −10 −7 1) (5 ∗ 7 5 3) ([3] 6 3) ({1} 1 1)

10_{33}: ([1]) (−2 −6 ∗ −6 −2) (3 0 [−6] 0 3) (−2 6 18 ∗ 18 6 −2) (−7 1 [16] 1 −7) (1 −9 −16 ∗ −16 −9 1) (3 −4 [−14] −4 3) (4 5 ∗ 5 4) (3 [6] 3) (1 ∗ 1)

10_{34}: (1 1 0 [2] 1) (−3 −4 −1 0 ∗ −1 −1) (−6 −8 −3 [−3] −2) (7 12 5 −1 ∗ 0 1) (14 20 4 [0] 2) (−5 −6 −5 −2 ∗ 2) (−10 −17 −5 [2]) ({−7} 1 −2 −1 2) ({−6} 2 4 2) ({−5} 1 1)

10_{35}: (−1 −1 0 [1] 1 1) (−2 −1 1 ∗ 1 1) (4 3 −3 [−3] −3 −2) (6 5 0 ∗ −2 −3) (−4 0 10 [5] 0 1) (−7 −6 −1 ∗ 0 2) (1 −5 −11 [−3] 2) (2 0 0 ∗ 2) (2 4 [2]) ({−3} 1 1)

10_{36}: ([1] 1 2 1) ({1} 1 1 −3 −4 −1) ([−2] −3 −6 −8 −2 1) ({1} −3 −2 8 16 9) ([1] 0 6 18 8 −3) ({1} 2 0 −6 −15 −11) ({2} 2 −3 −16 −10 1) ({3} 2 1 2 3) ({4} 2 5 3) ({5} 1 1)

10_{37}: (−1 −1 [1] −1 −1) (2 2 −1 ∗ −1 2 2) (3 0 [−6] 0 3) (−3 −3 1 ∗ 1 −3 −3) (−5 2 [14] 2 −5) (1 −2 0 ∗ 0 −2 1) (2 −3 [−10] −3 2) (2 0 ∗ 0 2) (2 [4] 2) (1 ∗ 1)

10_{38}: ([1] −1 −2 −1) ({7} −1 −1) ([−2] 2 8 2 0 2) ({1} −2 1 3 8 8) ([1] −3 −8 3 4 −3) ({1} 2 −2 −7 −13 −10) ({2} 3 2 −10 −8 1) ({3} 3 3 3 3) ({4} 2 5 3) ({5} 1 1)

10_{39}: ({2} −2 −1) ({5} −1 0 2 1) ({2} 5 5 −1 1 1 −1) ({3} 4 5 4 −1 −4) ({2} −4 −4 5 0 −4 1) ({3} −6 −9 −9 −3 3) ({2} 1 −3 −10 −2 4) ({3} 2 2 4 4) ({4} 2 5 3) ({5} 1 1)

10_{40}: (1 0 −3 [−1]) (1 0 0 2 2 ∗ 1) (3 1 1 7 [4]) (−2 2 6 3 −1 ∗ −2) (−6 −5 −2 −9 [−6]) (1 −6 −13 −12 −5 ∗ 1) (3 0 −5 1 [3]) ({−7} 4 7 7 4) ({−6} 3 6 3) ({−5} 1 1)

10_{41}: (−1 [−1] −2 −2 −1) (−1 ∗ −2 −2 0 1) (3 [7] 9 10 4 −1) (7 ∗ 13 10 1 −3) (−3 [−4] −8 −14 −6 1) (−9 ∗ −20 −18 −4 3) (1 [−5] −7 4 5) (3 ∗ 6 8 5) ([3] 6 3) ({1} 1 1)

10_{42}: (−1 −3 [−2] −1) (1 1 −1 ∗ −1) (4 9 [9] 6 2) (−2 0 10 ∗ 14 5 −1) (−6 −11 [−8] −10 −7) (1 −5 −18 ∗ −24 −11 1) (3 2 [−5] 0 4) (4 9 ∗ 11 6) (3 [7] 4) (1 ∗ 1)

10_{43}: (−1 −2 [−1] −2 −1) (1 0 −3 ∗ −3 0 1) (3 7 [8] 7 3) (−2 1 12 ∗ 12 1 −2) (−6 −8 [−4] −8 −6) (1 −6 −16 ∗ −16 −6 1) (3 0 [−6] 0 3) (4 7 ∗ 7 4) (3 [6] 3) (1 ∗ 1)

10_{44}: (−1 [−2] −3 −1) (−2 ∗ −4 −2) (3 [9] 13 10 3) (8 ∗ 20 15 0 −3) (−3 [−6] −12 −18 −8 1) (−9 ∗ −26 −27 −6 4) (1 [−4] −7 5 7) (3 ∗ 8 12 7) ([3] 7 4) ({1} 1 1)

10_{45}: (−2 [−3] −2) (−1 −5 ∗ −5 −1) (3 12 [18] 12 3) (−1 5 21 ∗ 21 5 −1) (−7 −17 [−20] −17 −7) (1 −10 −31 ∗ −31 −10 1) (4 3 [−2] 3 4) (6 14 ∗ 14 6) (4 [8] 4) (1 ∗ 1)

10_{46}: ({4} 6 8 3) ({5} −6 −10 −2 2) ({4} −17 −29 −7 2 −2 1) ({5} 5 23 9 −7 2) ({4} 17 42 13 −9 3) ({5} 5 −12 −13 4) ({4} −7 −23 −12 4) ({5} −5 −1 4) ({4} 1 4 3) ({5} 1 1)

10_{47}: ({−6} 5 9 3) ({−11} −1 2 −1 −9 −8 −3) ({−10} −1 1 −15 −26 −9) ({−11} 1 −3 2 19 20 7) ({−10} 2 −3 15 35 15) ({−9} 3 −5 −14 −11 −5) ({−8} 3 −10 −23 −10) ({−7} 3 1 −1 1) ({−6} 3 5 2) ({−5} 1 1)

10_{48}: (4 [9] 4) (2 0 −7 ∗ −9 −3 1) (2 −11 [−27] −13 1) (−3 −1 12 ∗ 21 8 −3) (−5 9 [37] 18 −5) (1 −3 −5 ∗ −11 −9 1) (2 −5 [−20] −11 2) (2 0 ∗ 1 3) (2 [5] 3) (1 ∗ 1)

10_{49}: ({6} −1 5 7 2) ({9} −9 −10 0 1) ({6} 4 −13 −20 −2 0 −1) ({7} 3 22 24 1 −4) ({6} −4 15 26 2 −4 1) ({7} −6 −18 −19 −4 3) ({6} 1 −11 −19 −3 4) ({7} 2 3 5 4) ({8} 3 6 3) ({9} 1 1)

10_{50}: ({2} −2 1 4 2) ({3} 1 −3 −10 −6) ({2} 5 0 −13 −3 3 −2) ({3} 3 6 22 16 −3) ({2} −4 −1 18 9 −5 1) ({3} −6 −8 −15 −11 2) ({2} 1 −4 −15 −7 3) ({3} 2 1 3 4) ({4} 2 5 3) ({5} 1 1)

10_{51}: (3 4 −1 [−1]) (2 −3 −9 −5 0 ∗ 1) (1 −8 −8 4 [3]) (−3 5 21 15 0 ∗ −2) (−4 9 13 −6 [−6]) (1 −6 −16 −16 −6 ∗ 1) (2 −6 −12 −1 [3]) ({−7} 3 5 6 4) ({−6} 3 6 3) ({−5} 1 1)

10_{52}: (2 [4] 0 −1) (−4 −9 ∗ −7 0 2) (−7 [−9] 4 6) (8 24 ∗ 24 2 −5 1) (13 [19] −9 −12 3) (−5 −16 ∗ −28 −11 6) (−9 [−20] −3 8) (1 1 ∗ 7 7) (2 [6] 4) (1 ∗ 1)

10_{53}: ({6} −3 0 3 1) ({7} 1 −7 −11 −3) ({4} −1 8 4 −5 2 2) ({5} −2 1 21 28 10) ({4} 1 −9 −7 6 0 −3) ({5} 3 −6 −26 −27 −10) ({6} 6 0 −13 −6 1) ({7} 6 10 7 3) ({8} 4 7 3) ({9} 1 1)

10_{54}: (−2 −2 [3] 2) (−1 1 1 −5 ∗ −8 −4) (−1 5 5 [−7] −6) (1 −2 2 17 ∗ 20 8)

(2 −6 −3 [17] 12) (3 −7 −18 ∗ −13 −5) (4 −5 [−18] −9) (4 3 ∗ 0 1) (3 [5] 2) (1 ∗ 1)
10_{55}: ({4} 1 −1 1 3 1) ({7} 2 −4 −9 −3) ({4} −2 2 −3 −8 1 2) ({5} −2 −2 15 24 9) ({4} 1 −3 5 13 1 −3) ({5} 2 −1 −16 −23 −10) ({6} 3 −4 −15 −7 1) ({7} 3 5 5 3) ({8} 3 6 3) ({9} 1 1)
10_{56}: ({2} −2 0 2 1) ({5} −4 −8 −4) ({2} 5 3 −7 −2 2 −1) ({3} 4 11 21 11 −3) ({2} −4 −3 12 4 −6 1) ({3} −6 −13 −21 −11 3) ({2} 1 −3 −14 −5 5) ({3} 2 3 7 6) ({4} 2 6 4) ({5} 1 1)
10_{57}: (2 2 −2 [−1]) (1 −3 −6 −2 1 ∗ 1) (2 −2 0 8 [4]) (−2 6 18 12 0 ∗ −2) (−5 −1 −1 −11 [−6]) (1 −9 −23 −19 −5 ∗ 1) (3 −3 −7 2 [3]) ({−7} 5 10 9 4) ({−6} 4 7 3) ({−5} 1 1)
10_{58}: (1 0 [−2] −3 −2 −1) (−4 ∗ −6 −4 −2) (−2 0 [8] 10 7 3) (−2 8 ∗ 21 18 7) (1 −2 [−5] −4 −5 −3) (2 −6 ∗ −22 −23 −9) (3 [−1] −10 −5 1) (4 ∗ 7 6 3) ([3] 6 3) ({1} 1 1)
10_{59}: (−1 [−2] −4 −3 −1) (−2 ∗ −5 −4 0 1) (3 [8] 11 10 3 −1) (8 ∗ 21 20 4 −3) (−3 [−6] −8 −11 −5 1) (−9 ∗ −27 −28 −7 3) (1 [−4] −9 1 5) (3 ∗ 8 11 6) ([3] 7 4) ({1} 1 1)
10_{60}: (−1 −3 −4 [−2] −1) (−3 −7 −6 ∗ −2) (3 11 18 [14] 4) (9 27 25 ∗ 5 −2) (−3 −8 −17 [−22] −9 1) (−9 −32 −38 ∗ −11 4) (1 −3 −7 [5] 8) (3 10 16 ∗ 9) (3 8 [5]) ({−3} 1 1)
10_{61}: ([4] 5 1 −1) ({1} −2 −8 −6) ([−16] −24 1 6 −2 1) ({1} 1 26 17 −6 2) ([17] 38 5 −13 3) ({1} 6 −16 −18 4) ([−7] −22 −10 5) ({1} −5 0 5) ([1] 4 3) ({1} 1 1)
10_{62}: ({−6} 4 7 2) ({−11} −1 1 −1 −6 −5 −2) ({−10} −1 4 −8 −23 −10) ({−11} 1 − 2 5 16 15 7) ({−10} 2 −6 6 30 16) ({−9} 3 −8 −15 −9 −5) ({−8} 4 −7 −21 −10) ({−7} 4 2 −1 1) ({−6} 3 5 2) ({−5} 1 1)
10_{63}: ({4} 1 0 3 4 1) ({9} −8 −10 −2) ({4} −2 1 −10 −16 −2 1) ({5} −2 0 20 28 10) ({4} 1 −3 11 24 6 −3) ({5} 2 −2 −16 −23 −11) ({6} 3 −6 −19 −9 1) ({7} 3 4 4 3) ({8} 3 6 3) ({9} 1 1)
10_{64}: ([4] 6 3) (−1 ∗ −3 −6 −4) (4 [−9] −26 −8 3 −2) (6 ∗ 4 16 15 −3) (−4 [7] 30 13 −5 1) (−7 ∗ −5 −11 −11 2) (1 [−6] −18 −8 3) (2 ∗ 0 2 4) ([2] 5 3) ({1} 1 1)
10_{65}: ({−6} 3 5 1) ({−9} 2 −2 −8 −6 −2) (1 −12 −17 −1 [3]) (−3 4 19 20 6 ∗ −2) (−4 12 24 1 [−7]) (1 −6 −14 −17 −9 ∗ 1) (2 −7 −16 −4 [3]) ({−7} 3 4 5 4) ({−6} 3 6 3) ({−5} 1 1)
10_{66}: ({6} −2 2 4 1) ({7} 1 −5 −6) ({6} 5 −6 −8 5 2) ({7} 2 20 22 1 −3) ({6} −4 8 8 − 13 −8 1) ({7} −5 −22 −28 −7 4) ({6} 1 −8 −13 3 7) ({7} 2 6 11 7) ({8} 3 7 4) ({9} 1 1)
10_{67}: ([1]) ({3} −2 −6 −6 −2) ([−2] 0 2 −2 0 2) ({1} −2 7 19 19 9) ([1] −2 −1 7 2 −3) ({1} 2 −6 −19 −21 −10) ({2} 3 −2 −13 −7 1) ({3} 4 6 5 3) ({4} 3 6 3) ({5} 1 1)
10_{68}: ({−6} 1 1 −1) ({−7} −4 −8 −6 −2) (−7 −5 7 [4] −1) (8 23 27 8 ∗ −3 1) (13 17 −9 [−10] 3) (−5 −16 −30 −14 ∗ 5) (−9 −20 −4 [7]) ({−7} 1 1 7 7) ({−6} 2 6 4) ({−5} 1 1)
10_{69}: ({−8} −1 −2 −2 −2) ({−9} 1 −2 −6 −4 −1) (3 7 12 11 [3]) (−2 5 23 22 5 ∗ −1) (−5 −9 −14 −17 [−7]) (1 −8 −30 −32 −10 ∗ 1) (3 0 −4 3 [4]) ({−7} 5 13 14 6) ({−6} 4 8 4) ({−5} 1 1)
10_{70}: (−1 −2 −3 [−3] −2) (1 1 1 0 ∗ −1) (−1 4 9 9 [10] 5) (−3 0 2 4 ∗ 5) (1 −6 −12 − 8 [−7] −4) (3 −4 −11 −10 ∗ −6) (5 3 −5 [−2] 1) (5 6 3 ∗ 2) (3 5 [2]) ({−3} 1 1)
10_{71}: (−1 −3 [−3] −3 −1) (1 1 −1 ∗ −1 1 1) (4 10 [12] 10 4) (−2 0 7 ∗ 7 0 −2) (−6 −12 [−12] −12 −6) (1 −5 −15 ∗ −15 −5 1) (3 2 [−2] 2 3) (4 8 ∗ 8 4) (3 [6] 3) (1 ∗ 1)
10_{72}: ({2} −2 −2 −2 −1) ({3} −1 −3 −1 1) ({2} 5 8 7 6 2) ({3} 5 11 9 0 −3) ({2} −4 −6 −4 −11 −8 1) ({3} −6 −14 −19 −7 4) ({2} 1 −2 −8 2 7) ({3} 2 4 9 7) ({4} 2 6 4) ({5} 1 1)
10_{73}: ({−8} −1 −3 −4 −3) ({−9} 1 0 −3 −3 −1) (4 12 17 12 [3]) (−2 1 14 16 4 ∗ −1) (−6 −14 −17 −16 [−7]) (1 −5 −21 −26 −10 ∗ 1) (3 3 −2 2 [4]) ({−7} 4 10 12 6) ({−6} 3 7 4) ({−5} 1 1)
10_{74}: ({2} −2 0 2 1) ({5} −4 −8 −4) ([−1] 5 8 −1 1 4) ({1} −3 3 9 11 8) ([1] −7 −9 3 0 −4)

({1} 3 −6 −12 −10 −7) ({2} 5 1 −9 −4 1) ({3} 5 5 2 2) ({4} 3 5 2) ({5} 1 1)

10_{75}: ({−6} −1 −3 −3) (−3 −7 −5 ∗ −1) (3 12 20 [15] 4) (9 24 17 ∗ −1 −3) (−3 −9 −21 [−24] −8 1) (−9 −29 −29 ∗ −5 4) (1 −3 −4 [7] 7) (3 9 13 ∗ 7) (3 7 [4]) ({−3} 1 1)

10_{76}: ({2} −4 −4 0 1) ({3} 4 8 2 −2) ({2} 8 9 −7 −4 3 −1) ({3} −2 −15 −3 7 −3) ({2} −5 −7 10 4 −7 1) ({3} −2 7 −2 −8 3) ({2} 1 0 −9 −3 5) ({3} 1 −2 2 5) ({4} 1 4 3) ({5} 1 1)

10_{77}: (1 −1 −5 [−2]) (1 −1 −1 3 4 ∗ 2) (2 −2 −1 7 [4]) (−2 2 6 0 −5 ∗ −3) (−6 0 8 −3 [−5]) (1 −7 −9 −3 −1 ∗ 1) (3 −3 −9 −1 [2]) ({−7} 4 4 2 2) ({−6} 3 5 2) ({−5} 1 1)

10_{78}: ({2} −1 −1 −4 −4 −1) ({3} −1 −3 2 6 2) ({2} 3 6 11 10 1 −1) ({3} 7 15 5 −7 −4) ({2} −3 −4 −7 −10 −3 1) ({3} −9 −21 −15 0 3) ({2} 1 −5 −8 2 4) ({3} 3 6 7 4) ({4} 3 6 3) ({5} 1 1)

10_{79}: (5 [11] 5) (2 −2 −11 ∗ −11 −2 2) (1 −13 [−28] −13 1) (−3 4 22 ∗ 22 4 −3) (−4 12 [32] 12 −4) (1 −6 −15 ∗ −15 −6 1) (2 −7 [−18] −7 2) (3 4 ∗ 4 3) (3 [6] 3) (1 ∗ 1)

10_{80}: ({6} −2 3 6 2) ({7} 1 −8 −12 −2 1) ({6} 5 −7 −13 2 2 −1) ({7} 2 22 29 6 −3) ({6} −4 8 13 −5 −5 1) ({7} −5 −23 −29 −8 3) ({6} 1 −8 −15 −1 5) ({7} 2 6 10 6) ({8} 3 7 4) ({9} 1 1)

10_{81}: (−1 −1 [1] −1 −1) (1 −2 −8 ∗ −8 −2 1) (3 6 [6] 6 3) (−2 5 25 ∗ 25 5 −2) (−5 −9 [−8] −9 −5) (1 −8 −31 ∗ −31 −8 1) (3 0 [−6] 0 3) (5 13 ∗ 13 5) (4 [8] 4) (1 ∗ 1)

10_{82}: ([1]) (−1 ∗ −2 0 2 1) (1 [−6] −13 −5 0 −1) (7 ∗ 10 5 −2 −4) (−3 [14] 32 10 −4 1) (−10 ∗ −8 −4 −3 3) (1 [−14] −27 −8 4) (3 ∗ −2 −1 4) ([4] 8 4) ({1} 2 2)

10_{83}: (1 2 1 [1]) ({−7} −3 −6 −4 −1) (2 −4 −10 −2 [2]) (−2 9 20 13 3 ∗ −1) (−6 10 22 −1 [−7]) (1 −11 −18 −17 −10 ∗ 1) (3 −10 −22 −5 [4]) ({−7} 5 5 6 6) ({−6} 5 10 5) ({−5} 2 2)

10_{84}: ([−1] −4 −2) (1 ∗ 2 2 0 −1) ([4] 7 1 −1 1) (−2 ∗ −2 4 11 6 −1) ([−6] −5 9 2 −6) (1 ∗ −4 −11 −20 −13 1) ([3] −2 −17 −8 4) ({1} 4 5 8 7) ({2} 4 10 6) ({3} 2 2)

10_{85}: ({−6} 1 1 −1) ({−9} 1 0 −2 −2 −1) ({−10} −1 1 −5 −14 −7) ({−11} 1 −4 2 14 11 4) ({−10} 3 −7 8 37 19) ({−9} 5 −10 −15 −4 −4) ({−8} 6 −12 −32 −14) ({−7} 6 0 −5 1) ({−6} 5 8 3) ({−5} 2 2)

10_{86}: ([2] 2 1) (−1 ∗ −3 −4 −2) (3 [1] −6 −2 2) (−2 4 ∗ 13 15 8) (1 −9 [−7] 13 7 −3) (4 −11 ∗ −23 −17 −9) (8 [−2] −21 −10 1) (9 ∗ 9 3 3) ([6] 10 4) ({1} 2 2)

10_{87}: (−1 [−2] −3 −1) (1 1 ∗ −1 −1) (−1 3 [7] 3 1 1) (−3 2 ∗ 13 15 7) (1 −5 [−5] 8 5 −2) (3 −6 ∗ −21 −23 −11) (5 [−3] −21 −12 1) (6 ∗ 7 5 4) ([5] 10 5) ({1} 2 2)

10_{88}: (−1 [−1] −1) (−1 −4 ∗ −4 −1) (3 7 [8] 7 3) (−1 6 19 ∗ 19 6 −1) (−6 −10 [−8] −10 −6) (1 −11 −32 ∗ −32 −11 1) (4 −2 [−12] −2 4) (7 14 ∗ 14 7) (6 [12] 6) (2 ∗ 2)

10_{89}: (−1 −2 −1 0 [1]) ({−9} 1 −1 −4 −2) ({−8} 3 6 6 3) ({−9} −2 4 20 19 5) (−5 −4 −2 −9 [−6]) (1 −7 −27 −35 −15 ∗ 1) (3 −3 −15 −4 [5]) ({−7} 5 11 15 9) ({−6} 5 12 7) ({−5} 2 2)

10_{90}: (−2 [−2] 0 1) (−2 ∗ −2 −1 −1) (−1 6 [8] −5 −4 2) (−2 7 ∗ 9 7 7) (1 −8 [−6] 15 9 −3) (3 −10 ∗ −15 −11 −9) (6 [−3] −21 −11 1) (7 ∗ 5 1 3) ([5] 9 4) ({1} 2 2)

10_{91}: (2 [5] 2) (1 0 −4 ∗ −6 −3) (2 −7 [−19] −9 1) (−2 0 9 ∗ 18 9 −2) (−6 7 [35] 16 −6) (1 −6 −7 ∗ −13 −12 1) (3 −7 [−26] −13 3) (4 1 ∗ 2 5) (4 [9] 5) (2 ∗ 2)

10_{92}: ({2} −1 1 1) ({3} −1 −5 −5 −1) ({2} 3 1 −2 2 2) ({3} 6 18 21 7 −2) ({2} −3 2 10 −4 −8 1) ({3} −8 −22 −32 −14 4) ({2} 1 −8 −22 −5 8) ({3} 3 5 12 10) ({4} 4 11 7) ({5} 2 2)

10_{93}: ({−4} −1 −2) (1 −1 −6 ∗ −6 −2) (7 7 [−6] −6) (1 −4 7 25 ∗ 18 5) (3 −14 −6 [28] 17) (6 −17 −29 ∗ −10 −4) (9 −9 [−31] −13) (9 5 ∗ −3 1) (6 [9] 3) (2 ∗ 2)

10_{94}: ([3] 4 2) (−1 ∗ −3 −5 −3) (2 [−7] −18 −6 2 −1) (6 ∗ 10 16 9 −3) (−3 [11] 31 10 −6 1) (−9 ∗ −11 −15 −10 3) (1 [−12] −27 −9 5) (3 ∗ 0 3 6) ([4] 9 5) ({1} 2 2)

10_{95}: ({−6} 2 3) ({−9} 1 −2 −5 −3 −1) (2 −4 −7 1 [2]) (−2 5 17 16 5 ∗ −1)

(−5 4 13 −2 [−6]) (1 −8 −21 −25 −12 ∗ 1) (3 −6 −19 −6 [4]) ({−7} 5 8 10 7) ({−6} 5 11 6) ({−5} 2 2)

10_{96}: (−1 −2 −3 [−3] −2) (−2 −2 −1 ∗ −1) (3 6 10 [12] 5) (7 16 17 ∗ 7 −1) (−3 −1 −4 [−17] −10 1) (−8 −23 −34 ∗ −15 4) (1 −7 −17 [0] 9) (3 6 14 ∗ 11) (4 11 [7]) ({−3} 2 2)

10_{97}: ({2} −2 −2 −2 −1) ({3} −2 −6 −4) ([−1] 6 10 3 1 1) ({1} −2 10 24 20 8) ([1] −7 −9 5 4 −2) ({1} 3 −12 −32 −28 −11) ({2} 6 −3 −21 −11 1) ({3} 8 11 7 4) ({4} 6 11 5) ({5} 2 2)

10_{98}: ({2} −1 3 5 2) ({5} −6 −12 −6) ({2} 3 −2 −10 0 4 −1) ({3} 5 14 25 14 −2) ({2} −3 4 17 2 −7 1) ({3} −8 −17 −26 −14 3) ({2} 1 −9 −23 −7 6) ({3} 3 3 8 8) ({4} 4 10 6) ({5} 2 2)

10_{99}: (4 [9] 4) (1 −3 −10 ∗ −10 −3 1) (1 −8 [−18] −8 1) (−2 5 21 ∗ 21 5 −2) (−5 9 [28] 9 −5) (1 −9 −18 ∗ −18 −9 1) (3 −9 [−24] −9 3) (5 5 ∗ 5 5) (5 [10] 5) (2 ∗ 2)

10_{100}: ({−6} 3 5 1) ({−9} 2 −2 −8 −6 −2) ({−8} 4 −6 −17 −7) ({−11} 1 −5 5 26 20 5) ({−10} 3 −11 5 36 17) ({−9} 6 −14 −27 −11 −4) ({−8} 8 −12 −33 −13) ({−7} 8 4 −3 1) ({−6} 6 9 3) ({−5} 2 2)

10_{101}: ({6} −2 2 4 1) ({9} −8 −9 −1) ({4} −1 7 −1 −9 1 1) ({5} −2 4 26 28 8) ({4} 1 −8 1 15 3 −2) ({5} 3 −8 −31 −31 −11) ({6} 6 −6 −24 −11 1) ({7} 7 10 7 4) ({8} 6 11 5) ({9} 2 2)

10_{102}: (−1 [0] 1 1) (−2 ∗ −4 −4 −2) (−1 3 [2] −8 −4 2) (−3 7 ∗ 16 13 7) (1 −6 [3] 21 8 −3) (3 −9 ∗ −17 −14 −9) (5 [−7] −24 −11 1) (6 ∗ 4 1 3) ([5] 9 4) ({1} 2 2)

10_{103}: (1 0 −3 [−1]) (−4 −6 −2 1 ∗ 1) (1 −6 −8 2 [3]) (−2 10 21 9 −2 ∗ −2) (−6 13 25 0 [−6]) (1 −12 −16 −9 −5 ∗ 1) (3 −12 −23 −5 [3]) ({−7} 5 3 2 4) ({−6} 5 9 4) ({−5} 2 2)

10_{104}: (1 [3] 1) (1 1 −2 ∗ −4 −2) (3 −4 [−15] −6 2) (−2 −1 4 ∗ 13 8 −2) (−6 3 [27] 12 −6) (1 −5 −6 ∗ −12 −11 1) (3 −5 [−22] −11 3) (4 2 ∗ 3 5) (4 [9] 5) (2 ∗ 2)

10_{105}: (−1 [−1] −1) (−2 ∗ −4 −3 −1) (3 [5] 4 5 3) (7 ∗ 18 19 6 −2) (−3 [−1] 2 −9 −8 1) (−8 ∗ −24 −33 −13 4) (1 [−7] −19 −3 8) (3 ∗ 6 13 10) ([4] 11 7) ({1} 2 2)

10_{106}: ([2] 2 1) (−1 ∗ −2 −1 1 1) (2 [−5] −13 −3 2 −1) (7 ∗ 9 8 3 −3) (−3 [9] 22 4 −5 1) (−9 ∗ −12 −13 −7 3) (1 [−11] −23 −6 5) (3 ∗ 1 4 6) ([4] 9 5) ({1} 2 2)

10_{107}: ({−4} −1 −2) (1 0 −3 ∗ −3 −1) (3 3 [0] 2 2) (−2 3 15 ∗ 17 6 −1) (−5 −2 [5] −4 −6) (1 −7 −22 ∗ −27 −12 1) (3 −4 [−16] −5 4) (5 9 ∗ 11 7) (5 [11] 6) (2 ∗ 2)

10_{108}: ([1]) (−2 −6 ∗ −6 −2) (−7 [−10] 0 2 −1) (5 19 ∗ 28 10 −3 1) (17 [33] 4 −9 3) (−4 −11 ∗ −29 −17 5) (−13 [−33] −13 7) (1 −3 ∗ 4 8) (3 [9] 6) (2 ∗ 2)

10_{109}: (3 [7] 3) (1 −1 −5 ∗ −5 −1 1) (2 −7 [−18] −7 2) (−2 4 13 ∗ 13 4 −2) (−5 6 [22] 6 −5) (1 −8 −16 ∗ −16 −8 1) (3 −7 [−20] −7 3) (5 6 ∗ 6 5) (5 [10] 5) (2 ∗ 2)

10_{110}: (−1 [0] 0 −1 −1) (−1 ∗ −3 −6 −4) (3 [2] −1 6 5 −1) (6 ∗ 13 21 12 −2) (−3 [1] 8 −4 −7 1) (−8 ∗ −19 −27 −13 3) (1 [−8] −20 −5 6) (3 ∗ 4 9 8) ([4] 10 6) ({1} 2 2)

10_{111}: ({2} −1 2 3 1) ({3} −1 −7 −10 −4) ({2} 3 −2 −10 −3 1 −1) ({3} 5 19 30 13 −3) ({2} −3 3 22 10 −5 1) ({3} −8 −20 −28 −13 3) ({2} 1 −9 −26 −11 5) ({3} 3 3 7 7) ({4} 4 10 6) ({5} 2 2)

10_{112}: (−2 −4 [−1]) ({−5} 2 2) (1 1 −3 [−3]) (−3 −1 9 13 ∗ 6) (1 −7 3 28 [15] −2) (4 −8 −17 −16 ∗ −11) (7 −9 −35 [−18] 1) (8 4 0 ∗ 4) (7 13 [6]) ({−3} 3 3)

10_{113}: ({2} −3 −3 −1) ({1} −1 −1 1 1) ([3] 8 8 3) (−1 ∗ 5 17 16 5) ([−6] −6 1 −4 −5) (1 ∗ −10 −30 −36 −16 1) ([4] −5 −23 −9 5) ({1} 7 12 15 10) ({2} 7 16 9) ({3} 3 3)

10_{114}: ({−4} −1 −2) (−2 −3 ∗ −1) (−3 −5 [0] 2) (7 18 18 ∗ 5 −2) (−2 14 26 [1] −8 1) (−11 −21 −27 ∗ −13 4) (1 −17 −35 [−9] 8) (4 2 8 ∗ 10) (6 14 [8]) ({−3} 3 3)

10_{115}: (1 [3] 1) (−2 −5 ∗ −5 −2) (2 −1 [−6] −1 2) (−1 8 22 ∗ 22 8 −1) (−5 1 [12] 1 −5) (1 −13 −34 ∗ −34 −13 1) (4 −9 [−26] −9 4) (8 13 ∗ 13 8) (8 [16] 8) (3 ∗ 3)

10_{116}: ([1]) (−1 −3 −3 ∗ −1) (2 1 −3 [−1] 1) (−2 6 19 17 ∗ 6) (1 −8 −1 19 [9] −2) (4 −13 −29 −22 ∗ −10) (8 −8 −32 [−15] 1) (10 9 3 ∗ 4) (8 14 [6]) ({−3} 3 3)

10_{117}: ({−6} 1 1 −1) ({−7} −3 −5 −3 −1) (1 −3 −4 2 [2]) (−1 8 21 18 5 ∗ −1) (−5 6 17 0 [−6]) (1 −14 −29 −26 −11 ∗ 1) (4 −12 −28 −8 [4]) ({−7} 8 10 9 7)

({−6} 8 15 7) ({−5} 3 3)

10_{118}: ([1]) (−1 −3 ∗ −3 −1) (1 −2 [−6] −2 1) (−1 5 15 ∗ 15 5 −1) (−6 6 [24] 6 −6) (1 −12 −20 ∗ −20 −12 1) (4 −11 [−30] −11 4) (7 6 ∗ 6 7) (7 [14] 7) (3 ∗ 3)

10_{119}: (−1 [−1] −1) (−1 −3 −4 ∗ −2) (1 0 1 [6] 4) (7 19 22 ∗ 9 −1) (−2 8 13 [−7] −9 1) (−10 −26 −37 ∗ −17 4) (1 −14 −31 [−7] 9) (4 5 13 ∗ 12) (6 15 [9]) ({−3} 3 3)

10_{120}: ({6} −3 0 3 1) ({7} 2 −4 −8 −2) ({6} 7 0 −7 1 1) ({7} 5 26 29 8) ({4} 1 −11 −3 17 6 −2) ({5} 4 −17 −44 −33 −10) ({6} 10 −9 −33 −13 1) ({7} 13 16 7 4) ({8} 10 16 6) ({9} 3 3)

10_{121}: ([1] 1 2 1) ({3} −1 −3 −2) ({2} −3 −7 −3 1) ({1} 4 14 19 8 −1) ([−5] 3 22 9 −5) (1 ∗ −15 −30 −28 −13 1) ([5] −13 −36 −14 4) ({1} 10 11 9 8) ({2} 10 19 9) ({3} 4 4)

10_{122}: (−2 −4 [−1]) ({−5} 2 2) ([2] 2) (4 14 18 ∗ 6 −2) (−1 12 24 [3] −7 1) (−11 −25 −32 ∗ −14 4) (1 −20 −42 [−13] 8) (5 3 9 ∗ 11) (8 18 [10]) ({−3} 4 4)

10_{123}: (−2 [−3] −2) (−2 ∗ −2) (6 [12] 6) (5 21 ∗ 21 5) (−5 −3 [4] −3 −5) (1 −15 −38 ∗ −38 −15 1) (5 −11 [−32] −11 5) (10 14 ∗ 14 10) (10 [20] 10) (4 ∗ 4)

10_{124}: ({8} 7 8 2) ({9} −8 −8) ({8} −21 −22 −1) ({9} 14 14) ({8} 21 21) ({9} −7 −7) ({8} −8 −8) ({9} 1 1) ({8} 1 1)

10_{125}: (3 [7] 3) (1 −1 −6 ∗ −8 −4) (1 −6 [−15] −8) (1 8 ∗ 17 10) (2 [13] 11) (−5 ∗ −11 −6) ([−6] −6) (1 ∗ 2 1) ([1] 1)

10_{126}: ({−6} 4 7 2) ({−9} 3 −1 −8 −6 −2) ({−8} 1 −11 −16 −4) ({−9} −4 2 16 11 1) ({−8} −3 11 16 2) ({−9} 1 −3 −9 −5) ({−8} 1 −5 −6) ({−7} 1 2 1) ({−6} 1 1)

10_{127}: ({4} 5 6 2) ({5} −5 −8 −2 1) ({4} −9 −14 −2 1 −2) ({5} 5 16 7 −4) ({4} 3 11 4 −3 1) ({5} −3 −10 −5 2) ({6} −4 −2 2) ({5} 1 3 2) ({6} 1 1)

10_{128}: ({6} −2 2 4 1) ({7} 1 −5 −6) ({6} 6 −5 −11) ({7} 2 13 11) ({6} −5 7 12) ({7} −4 −10 −6) ({6} 1 −5 −6) ({7} 1 2 1) ({8} 1 1)

10_{129}: (1 [2] −1 −1) (−2 −5 ∗ −5 −1 1) (−3 [−4] 2 3) (1 9 ∗ 15 4 −3) (2 [8] 0 −6) (−4 ∗ −11 −6 1) ([−4] −2 2) (1 ∗ 3 2) ([1] 1)

10_{130}: (2 2 −2 [−1]) (−6 −9 −3 1 ∗ 1) (−4 0 6 [2]) ({−7} 11 21 8 −2) ({−6} 7 0 −7) ({−7} −6 −15 −8 1) ({−6} −5 −3 2) ({−7} 1 3 2) ({−6} 1 1)

10_{131}: ({2} −2 0 2 1) ({3} 1 −1 −5 −3) ({2} 3 2 −3 2 4) ({3} 1 2 10 9) ({4} −2 −2 −4 −4) ({3} 1 −3 −12 −8) ({4} 2 0 −1 1) ({5} 2 4 2) ({6} 1 1)

10_{132}: ({−6} 2 3) ({−7} −5 −8 −4 −1) ({−6} −6 −7 −1) ({−7} 10 19 9) ({−6} 10 10) ({−7} −6 −12 −6) ({−6} −6 −6) ({−7} 1 2 1) ({−6} 1 1)

10_{133}: ({2} −1 2 3 1) ({5} −4 −7 −3) ({2} 1 −3 −6 1 3) ({3} 1 7 16 10) ({4} 2 6 0 −4) ({5} −4 −13 −9) ({6} −4 −3 1) ({5} 1 3 2) ({6} 1 1)

10_{134}: ({6} −3 0 3 1) ({7} 2 −4 −8 −2) ({6} 7 0 −7 1 1) ({9} 11 14 3) ({6} −5 1 5 −1) ({7} −3 −11 −8) ({6} 1 −3 −3 1) ({7} 1 3 2) ({8} 1 1)

10_{135}: (2 [4] 0 −1) (−3 −6 ∗ −4 1 2) (−4 [−6] 1 3) (3 9 ∗ 8 −1 −3) (2 [3] −4 −5) (−4 ∗ −8 −3 1) (1 [0] 1 2) (2 ∗ 4 2) ([1] 1)

10_{136}: (−1 −3 [−2] −1) (−2 −4 ∗ −2) (1 4 [6] 3) (7 16 ∗ 9) (2 [−2] −4) (−5 −14 ∗ −9) (−4 [−3] 1) (1 3 ∗ 2) (1 [1])

10_{137}: (−1 [−1] −2 −2 −1) (−1 ∗ −3 −5 −3) (1 [4] 7 8 4) (2 ∗ 9 15 8) ([−2] −5 −7 −4) ({1} −7 −15 −8) ([1] −1 −1 1) ({1} 2 4 2) ({2} 1 1)

10_{138}: (−2 [−3] −3 −2 −1) (−1 ∗ −1 −2 −2) (5 [12] 10 6 3) (6 ∗ 8 5 3) (−4 [−12] −13 −5) (−7 ∗ −14 −6 1) (1 [1] 3 3) (2 ∗ 5 3) ([1] 1)

10_{139}: ({8} 6 6 1) ({9} −6 −5 −1 −2) ({8} −21 −19 0 −2) ({9} 13 13 1 1) ({8} 21 20 0 1) ({9} −7 −7) ({8} −8 −8) ({9} 1 1) ({8} 1 1)

10_{140}: ([1] 2 4 2) ({3} −2 −6 −4) ({2} −4 −12 −8) ({3} 6 16 10) ({2} 1 12 11) ({3} −5 −11 −6) ({4} −6 −6) ({3} 1 2 1) ({4} 1 1)

10_{141}: ([2] 2 1) (−1 ∗ −3 −4 −2) (1 [−4] −9 −1 3) (2 ∗ 5 13 10) ([3] 8 1 −4) ({1} −3 −12 −9) ({2} −4 −3 1) ({1} 1 3 2) ({2} 1 1)

10_{142}: ({6} −1 4 5 1) ({9} −6 −4 2) ({6} 6 −10 −17 −1) ({7} 3 12 9) ({6} −5 9 15 1) ({7} −4 −9 −5) ({6} 1 −5 −6) ({7} 1 2 1) ({8} 1 1)

10_{143}: ({−6} 2 3) ({−9} 1 −2 −5 −3 −1) ({−8} 3 −3 −10 −4) ({−9} −3 5 14 7 1) ({−8} −6 2 11 3) ({−9} 1 −6 −10 −3) ({−8} 2 −2 −4) ({−7} 2 3 1) ({−6} 1 1)

10_{144}: ([3] 4 2) ({3} −2 −2) ([−7] −12 −2 2 −1) ({3} 8 4 −4) ([3] 8 −2 −6 1) ({1} −1 −8 −4 3) ({2} −2 2 4) ({1} 1 4 3) ({2} 1 1)
10_{145}: ({−10} 1 1 1 2) ({−11} −5 −6 −2 −1) ({−10} −6 −4 −2 −4) ({−11} 10 18 8) ({−10} 10 9 0 1) ({−11} −6 −12 −6) ({−10} −6 −6) ({−11} 1 2 1) ({−10} 1 1)
10_{146}: ([1]) (−1 −3 * −3 −1) (3 3 [−3] −3) (−2 5 12 * 6 1) (−8 −6 [5] 3) (1 −8 −11 * −2) (3 1 [−2]) (3 4 * 1) (1 [1])
10_{147}: (−1 [−1] −1) (−2 * −4 −3 −1) (4 [6] 1 0 1) (8 * 13 8 3) (−4 [−6] −2) (−8 * −14 −6) (1 [−1] −1 1) (2 * 4 2) ([1] 1)
10_{148}: ({−6} 3 5 1) ({−9} 2 −1 −5 −3 −1) ({−8} 2 −6 −11 −3) ({−9} −3 1 9 6 1) ({−8} −5 2 10 3) ({−9} 1 −4 −7 −2) ({−8} 2 −1 −3) ({−7} 2 3 1) ({−6} 1 1)
10_{149}: ({4} 4 4 1) ({5} −3 −3 1 1) ({4} −7 −9 0 1 −1) ({5} 2 5 −1 −4) ({4} 3 5 −4 −5 1) ({5} −1 −6 −2 3) ({6} −1 3 4) ({5} 1 4 3) ({6} 1 1)
10_{150}: ({2} −2 −1) ({5} −2 −3 −1) ({2} 5 8 3 1 1) ({3} 5 8 6 3) ({2} −4 −9 −5) ({3} −7 −12 −5) ({2} 1 0 0 1) ({3} 2 4 2) ({4} 1 1)
10_{151}: (1 0 −3 [−1]) (−3 −3 1 2 * 1) (−2 4 10 [4]) (3 5 1 −3 * −2) (2 −6 −15 [−7]) (−2 −7 −4 * 1) (1 3 5 [3]) ({−5} 2 5 3) ({−4} 1 1)
10_{152}: ({8} 8 10 3) ({9} −10 −11 1 2) ({8} −22 −26 −3 −1 −2) ({9} 17 19 −3 −5) ({8} 21 25 2 −1 1) ({9} −8 −8 2 2) ({8} −8 −9 0 1) ({9} 1 1) ({8} 1 1)
10_{153}: (−1 1 [6] 3) (3 2 −6 * −10 −5) (3 −2 [−12] −7) (−4 −4 12 * 22 10) (−4 0 [14] 10) (1 1 −7 * −13 −6) (1 0 [−7] −6) (1 * 2 1) ([1] 1)
10_{154}: ({6} −4 −2 2 1) ({7} 3 −3 −10 −4) ({6} 9 5 −5 2 3) ({7} −2 9 21 10) ({6} −6 −2 7 −1 −4) ({9} −6 −15 −9) ({6} 1 0 −5 −3 1) ({9} 1 3 2) ({10} 1 1)
10_{155}: (2 4 [3]) ({−5} −2 −2) (4 −1 −11 [−5] 1) (8 6 0 * 2) (−4 −1 7 [4]) ({−5} −8 −9 −1) ({−6} 1 −2 −3) ({−5} 2 3 1) ({−4} 1 1)
10_{156}: ({−4} −1 −2) ({−7} −1 −2 −2 −1) (−2 1 7 [4]) (1 4 8 3 * −2) (3 2 −9 [−8]) (−1 −9 −7 * 1) (−1 2 [3]) ({−5} 1 4 3) ({−4} 1 1)
10_{157}: ({−8} −1 0 2) ({−9} 4 4) ({−10} 2 7 0 −5) ({−11} −4 −8 −6 −2) ({−12} 1 − 8 −15 −3 3) ({−11} 4 0 −3 1) ({−10} 6 8 2) ({−9} 4 5 1) ({−8} 1 1)
10_{158}: (−2 [−2] 0 1) (−1 * 1 2) (−1 5 [9] −2 −5) (−3 3 * 2 −4) (1 −8 [−13] −1 3) (3 −5 * −7 1) (5 [6] 1) (4 * 5 1) ([1] 1)
10_{159}: ({2} −1 1 1) ({3} 1 1 1 1) ({2} −2 −4 1 3) ({1} 1 0 0 −1 −2) ({2} 4 3 −8 −7) ({3} 1 −5 −5 1) ({6} 3 3) ({3} 1 4 3) ({4} 1 1)
10_{160}: ({2} −1 0 −1 −1) ({3} −1 −3 0 2) ({2} 4 3 0 1) ({3} 7 10 3) ({2} −4 −3 2 1) ({3} −8 −11 −3) ({2} 1 −2 −3) ({3} 2 3 1) ({4} 1 1)
10_{161}: ({6} −3 −1 1) ({7} 2 0 1 3) ({6} 9 3 −3 3) ({7} −1 0 −3 −4) ({6} −6 −1 1 −4) ({11} 1 1) ({6} 1 0 0 1)
10_{162}: (−1 0 3 [3]) ({−5} −5 −7 −2) (−2 5 5 −9 [−7]) ({−7} −3 12 15) (1 −6 −4 6 [3]) ({−7} 2 −8 −11 −1) ({−6} 3 1 −2) ({−5} 3 4 1) ({−4} 1 1)
10_{163}: ([1] 1 2 1) ({3} −1 −3 −2) ([2] 2 −4 −4) (−1 * 3 8 7 3) ([−8] −11 1 4) (1 * −10 −15 −4) ([4] 3 0 1) ({1} 5 8 3) ({2} 2 2)
10_{164}: (1 [3] 1) (−2 −5 * −5 −2) (3 0 [−9] −6) (−2 7 16 * 10 3) (−7 −3 [8] 4) (1 −10 −17 * −6) (3 −1 [−3] 1) (4 7 * 3) (2 [2])
10_{165}: ({−6} 1 1 −1) ({−9} −1 −5 −5 −1) ({−10} 2 2 −2 1 3) ({−9} 10 18 11 3) ({−10} −3 −2 −2 −3) ({−9} −11 −22 −10 1) ({−10} 1 −4 −2 3) ({−9} 3 7 4) ({−8} 2 2)

8 Signatures

3_1: 2
4_1: 0
5_1: 4
5_2: 2
6_1: 0
6_2: 2
6_3: 0
7_1: 6
7_2: 2
7_3: 4
7_4: 2
7_5: 4
7_6: 2
7_7: 0
8_1: 0
8_2: 4
8_3: 0
8_4: -2
8_5: 4
8_6: 2
8_7: -2
8_8: 0
8_9: 0
8_{10}: -2
8_{11}: 2
8_{12}: 0
8_{13}: 0
8_{14}: 2
8_{15}: 4
8_{16}: -2
8_{17}: 0
8_{18}: 0
8_{19}: 6
8_{20}: 0
8_{21}: 2
9_1: 8
9_2: 2
9_3: 6
9_4: 4
9_5: 2
9_6: 6
9_7: 4
9_8: 2
9_9: 6
9_{10}: 4
9_{11}: -4
9_{12}: 2
9_{13}: 4
9_{14}: 0
9_{15}: -2
9_{16}: 6
9_{17}: 2
9_{18}: 4
9_{19}: 0
9_{20}: 4
9_{21}: -2
9_{22}: 2
9_{23}: 4
9_{24}: 0
9_{25}: 2
9_{26}: -2
9_{27}: 0
9_{28}: 2
9_{29}: -2
9_{30}: 0
9_{31}: 2
9_{32}: -2
9_{33}: 0
9_{34}: 0
9_{35}: 2
9_{36}: -4
9_{37}: 0
9_{38}: 4
9_{39}: -2
9_{40}: 2
9_{41}: 0
9_{42}: -2
9_{43}: 4
9_{44}: 0
9_{45}: -2
9_{46}: 0
9_{47}: 2
9_{48}: -2
9_{49}: 4
10_1: 0
10_2: 6
10_3: 0
10_4: -2
10_5: -4
10_6: 4
10_7: 2
10_8: 4
10_9: 2
10_{10}: 0
10_{11}: 2
10_{12}: -2
10_{13}: 0
10_{14}: 4
10_{15}: -2
10_{16}: 2
10_{17}: 0
10_{18}: 2
10_{19}: 2
10_{20}: 2
10_{21}: 4
10_{22}: 0
10_{23}: -2
10_{24}: 2
10_{25}: 4
10_{26}: 0
10_{27}: -2
10_{28}: 0
10_{29}: 2
10_{30}: 2
10_{31}: 0
10_{32}: 0
10_{33}: 0
10_{34}: 0
10_{35}: 0
10_{36}: 2
10_{37}: 0
10_{38}: 2
10_{39}: 4
10_{40}: -2
10_{41}: 2
10_{42}: 0
10_{43}: 0
10_{44}: 2
10_{45}: 0
10_{46}: 6
10_{47}: -4
10_{48}: 0
10_{49}: 6
10_{50}: 4
10_{51}: -2
10_{52}: 2
10_{53}: 4
10_{54}: -2
10_{55}: 4
10_{56}: 4
10_{57}: -2
10_{58}: 0
10_{59}: 2
10_{60}: 0
10_{61}: 4
10_{62}: -4
10_{63}: 4
10_{64}: 2
10_{65}: -2
10_{66}: 6
10_{67}: 2
10_{68}: 0
10_{69}: -2
10_{70}: -2
10_{71}: 0
10_{72}: 4
10_{73}: -2
10_{74}: 2
10_{75}: 0
10_{76}: 4
10_{77}: -2
10_{78}: 4
10_{79}: 0
10_{80}: 6
10_{81}: 0
10_{82}: 2
10_{83}: -2
10_{84}: 2
10_{85}: -4
10_{86}: 0
10_{87}: 0
10_{88}: 0
10_{89}: -2
10_{90}: 0
10_{91}: 0
10_{92}: 4
10_{93}: -2
10_{94}: 2
10_{95}: -2
10_{96}: 0
10_{97}: 2
10_{98}: 4
10_{99}: 0
10_{100}: -4
10_{101}: 4
10_{102}: 0
10_{103}: -2
10_{104}: 0
10_{105}: 2
10_{106}: 2
10_{107}: 0
10_{108}: 2
10_{109}: 0
10_{110}: 2
10_{111}: 4
10_{112}: -2
10_{113}: 2
10_{114}: 0
10_{115}: 0
10_{116}: -2
10_{117}: -2
10_{118}: 0
10_{119}: 0
10_{120}: 4
10_{121}: 2
10_{122}: 0
10_{123}: 0
10_{124}: 8
10_{125}: -2
10_{126}: -2
10_{127}: 4
10_{128}: 6
10_{129}: 0
10_{130}: 0
10_{131}: 2
10_{132}: 0
10_{133}: 2
10_{134}: 6
10_{135}: 0
10_{136}: -2
10_{137}: 0
10_{138}: 2
10_{139}: 6
10_{140}: 0
10_{141}: 0
10_{142}: 6
10_{143}: -2
10_{144}: 2
10_{145}: -2
10_{146}: 0
10_{147}: 2
10_{148}: -2
10_{149}: 4
10_{150}: 4
10_{151}: -2
10_{152}: 6
10_{153}: 0
10_{154}: 4
10_{155}: 0
10_{156}: -2
10_{157}: -4
10_{158}: 0
10_{159}: 2
10_{160}: 4
10_{161}: 4
10_{162}: -2
10_{163}: 2
10_{164}: 0
10_{165}: -2

9 The degree-3-Vassiliev invariant

3_1: 1
4_1: 0
5_1: 5
5_2: 3
6_1: -1
6_2: -1
6_3: 0
7_1: 14
7_2: 6
7_3: 11
7_4: 8
7_5: 8
7_6: 2
7_7: 1
8_1: -3
8_2: -1
8_3: 0
8_4: 1
8_5: -3
8_6: -3
8_7: -2
8_8: -1
8_9: 0
8_{10}: -3
8_{11}: -2
8_{12}: 0
8_{13}: -1
8_{14}: 0
8_{15}: 7
8_{16}: -1
8_{17}: 0
8_{18}: 0
8_{19}: 10
8_{20}: -2
8_{21}: -1
9_1: 30
9_2: 10
9_3: 26
9_4: 19
9_5: 15
9_6: 18
9_7: 12
9_8: 2
9_9: 22
9_{10}: 22
9_{11}: -9
9_{12}: 3
9_{13}: 18
9_{14}: 2
9_{15}: -5
9_{16}: 14
9_{17}: 0
9_{18}: 15
9_{19}: 1
9_{20}: 4
9_{21}: -6
9_{22}: 1
9_{23}: 11
9_{24}: 2
9_{25}: 1
9_{26}: 1
9_{27}: 1
9_{28}: 0
9_{29}: -2
9_{30}: -1
9_{31}: 2
9_{32}: 2
9_{33}: -1
9_{34}: 0
9_{35}: 18
9_{36}: -7
9_{37}: 1
9_{38}: 14
9_{39}: -4
9_{40}: -1
9_{41}: 1
9_{42}: 0
9_{43}: 2
9_{44}: 1
9_{45}: -4
9_{46}: 3
9_{47}: -2
9_{48}: -5
9_{49}: 14
10_1: -6
10_2: 2
10_3: -3
10_4: -1
10_5: -7
10_6: -4
10_7: -3
10_8: -4
10_9: -2
10_{10}: -2
10_{11}: -4
10_{12}: -6
10_{13}: -2
10_{14}: 3
10_{15}: -2
10_{16}: -4
10_{17}: 0
10_{18}: -1
10_{19}: 0
10_{20}: -6
10_{21}: 0
10_{22}: -2
10_{23}: -5
10_{24}: -5
10_{25}: -2
10_{26}: -2
10_{27}: -3
10_{28}: -4
10_{29}: -3
10_{30}: 1
10_{31}: -1
10_{32}: 0
10_{33}: 0
10_{34}: -3
10_{35}: 2
10_{36}: 2
10_{37}: 0
10_{38}: -2
10_{39}: 1
10_{40}: -4
10_{41}: -2
10_{42}: -1
10_{43}: 0
10_{44}: 1
10_{45}: 0
10_{46}: -4
10_{47}: -11
10_{48}: 0
10_{49}: 16
10_{50}: -5
10_{51}: -8
10_{52}: 1
10_{53}: 13
10_{54}: -2
10_{55}: 10
10_{56}: -2
10_{57}: -6
10_{58}: -1
10_{59}: -1
10_{60}: 1
10_{61}: -5
10_{62}: -9
10_{63}: 14
10_{64}: -3
10_{65}: -7
10_{66}: 17
10_{67}: 0
10_{68}: -3
10_{69}: -4
10_{70}: 2
10_{71}: 0
10_{72}: 4
10_{73}: -2
10_{74}: -2
10_{75}: 1
10_{76}: -6
10_{77}: -5
10_{78}: 5
10_{79}: 0
10_{80}: 12
10_{81}: 0
10_{82}: 0
10_{83}: -2
10_{84}: 2
10_{85}: -3
10_{86}: -1
10_{87}: 1
10_{88}: 0
10_{89}: -3
10_{90}: -1
10_{91}: 0
10_{92}: 3
10_{93}: -1
10_{94}: -2
10_{95}: -5
10_{96}: 2
10_{97}: 4
10_{98}: -3
10_{99}: 0
10_{100}: -7
10_{101}: 17
10_{102}: -1
10_{103}: -4
10_{104}: 0
10_{105}: 0
10_{106}: -1
10_{107}: -1
10_{108}: 0
10_{109}: 0
10_{110}: -3
10_{111}: 0
10_{112}: -2
10_{113}: -1
10_{114}: -1
10_{115}: 0
10_{116}: 0
10_{117}: -3
10_{118}: 0
10_{119}: 0
10_{120}: 13
10_{121}: 2
10_{122}: -2
10_{123}: 0
10_{124}: 20
10_{125}: 0
10_{126}: -9
10_{127}: -1
10_{128}: 17
10_{129}: 1
10_{130}: -6
10_{131}: -2
10_{132}: -5
10_{133}: 0
10_{134}: 13
10_{135}: 1
10_{136}: -1
10_{137}: -2
10_{138}: -2
10_{139}: 25
10_{140}: 4
10_{141}: -1
10_{142}: 21
10_{143}: -5
10_{144}: -2
10_{145}: -12
10_{146}: 0
10_{147}: 0
10_{148}: -7
10_{149}: 2
10_{150}: 1
10_{151}: -4
10_{152}: 15
10_{153}: -1
10_{154}: 9
10_{155}: 2
10_{156}: -1
10_{157}: -8
10_{158}: -1
10_{159}: 3
10_{160}: 6
10_{161}: 18
10_{162}: 4
10_{163}: 2
10_{164}: 0
10_{165}: -3

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