

Table of Basic Invariants

$16 \leq N \leq 25$

N	e	m	g	r_0	r_1	s_{11}	r_∞	\mathbb{L}_∞	$6\mathbb{S}_\infty$	c_∞
16	1	1536	16	8	8	4	10	14	21	-4
16	3	1536	16	8	8	4	10	24	3	-4
16	5	1536	16	8	8	4	10	30	-3	-4
16	7	1536	16	8	8	4	10	60	-21	-4
17	1	2448	17	8	6	3	8	45	0	-4
17	3	2448	17	8	6	3	8	30	0	-4
18	1	1944	18	12	9	9	13	25	12	-6
18	5	1944	18	12	9	0	13	52	-12	-6
19	1	3420	19	10	6	3	9	41	3	-5
19	2	3420	19	10	6	3	9	48	-3	-5
20	1	2880	20	8	12	6	16	38	18	-4
20	3	2880	20	8	12	6	16	36	6	-4
20	11	2880	20	8	12	6	16	78	-18	-4
20	13	2880	20	8	12	6	16	48	-6	-4
21	1	4032	21	16	6	6	18	34	28	-8
21	2	4032	21	16	6	0	18	36	20	-8
21	5	4032	21	16	6	0	18	96	-28	-8
21	10	4032	21	16	6	6	18	78	-20	-8
22	1	3960	22	12	12	6	15	33	18	-6
22	7	3960	22	12	12	6	15	72	-18	-6
23	1	6072	23	12	8	4	11	31	27	-6
23	5	6072	23	12	8	4	11	88	-27	-6
24	1	4608	24	16	12	12	20	20	68	-8
24	5	4608	24	16	12	0	20	48	4	-8
24	7	4608	24	16	12	12	20	60	-4	-8
24	11	4608	24	16	12	0	20	80	-20	-8
24	13	4608	24	16	12	12	20	36	20	-8
24	17	4608	24	16	12	0	20	52	4	-8
24	19	4608	24	16	12	12	20	56	-4	-8
24	23	4608	24	16	12	0	20	168	-68	-8
25	1	7500	25	10	10	5	18	81	0	-5
25	2	7500	25	10	10	5	18	74	0	-5

Note: All the other invariants can be derived from the above invariants via the following formulae:

$$\begin{aligned}
 g_0 &= (g+1)/2 - r_0/4 \\
 g_1 &= ((g+2) - r_1)/3 \\
 g_\infty &= (g-1)/N + 1 - r_\infty/2 + m/(2 * N^2) - \phi(N)/4 \\
 h &= 2(g - g_0 - g_1 - g_\infty) \\
 \mathbb{L} &= r_0 + 2r_1 - s_{11} + \mathbb{L}_\infty \\
 \mathbb{S} &= (2s_{11} - r_1)/18 + \mathbb{S}_\infty \\
 p_g &= h/4 - \mathbb{S} \\
 h^{11} &= 2 + h/2 + 2\mathbb{S} + \mathbb{L} \\
 b_2 &= 2 + h + \mathbb{L} \\
 sgn &= -4\mathbb{S} - \mathbb{L} \\
 c_2 = \chi_{top} &= 4 + h + \mathbb{L} \\
 K^2 &= 8 + 2h - \mathbb{L} - 12\mathbb{S} \\
 c_0 &= -r_0/2 \\
 c_1 &= -(2r_1 - s_{11})/3 \\
 \kappa &= \min(2, p_g - 1)
 \end{aligned}$$