

TABLE FOR OBTAINING PERIODS FOR INVARIANTS g_2 AND g_3

$$(\bar{g}_2 = g_2 g_3^{-\frac{2}{3}})$$

Non-Negative Discriminant				Non-Positive Discriminant			
\bar{g}_2	$\omega g_3^{\frac{1}{3}}$	$\frac{\omega' g_3^{\frac{1}{3}} \sqrt{6}}{i} \ln(\bar{g}_2-3)$	$\Delta = 0$	\bar{g}_2^{-1}	$\omega_2 g_3^{\frac{1}{3}} \bar{g}_2 ^{\frac{1}{2}}$	$\frac{\omega'_2 g_3^{\frac{1}{3}} \bar{g}_2 ^{\frac{1}{2}}}{i}$	$\langle \bar{g}_2 \rangle$
3.00	1.28254 98	1.52168 83	$\Delta = 0$	-0.00	2.62205 76	2.62205 76	$-\infty$
3.05	1.27944 73	1.51892 22		-0.01	2.62025 54	2.62384 98	-100
3.10	1.27637 43	1.51685 48		-0.02	2.61693 53	2.62710 11	-50
3.15	1.27333 03	1.51505 45		-0.03	2.61258 87	2.63126 10	-33
3.20	1.27031 49	1.51342 84		-0.04	2.60737 43	2.63611 20	-25
3.25	1.26732 80	1.51193 18		-0.05	2.60137 48	2.64151 34	-20
3.30	1.26436 90	1.51053 84		-0.06	2.59464 00	2.64735 75	-17
3.35	1.26143 77	1.50923 08		-0.07	2.58720 37	2.65355 47	-14
3.40	1.25853 38	1.50799 63		-0.08	2.57909 05	2.66002 55	-13
				-0.09	2.57032 09	2.66669 74	-11
\bar{g}_2	$\omega g_3^{\frac{1}{3}}$	$\omega' g_3^{\frac{1}{3}}/i$		-0.10	2.56091 33	2.67350 25	-10
3.4	1.25853 38	1.69503 33		-0.11	2.55088 61	2.68037 66	-9
3.5	1.25280 64	1.64719 87		-0.12	2.54025 86	2.68725 88	-8
3.6	1.24718 42	1.60789 93		-0.13	2.52905 23	2.69409 09	-8
3.7	1.24166 45	1.57451 65		-0.14	2.51729 09	2.70081 77	-7
3.8	1.23624 47	1.54548 31		-0.15	2.50500 11	2.70738 70	-7
3.9	1.23092 23	1.51978 54		-0.16	2.49221 23	2.71375 03	-6
				-0.17	2.47895 70	2.71986 26	-6
4.0	1.22569 47	1.49672 94		-0.18	2.46527 01	2.72568 31	-6
4.1	1.22055 95	1.47581 86		-0.19	2.45118 90	2.73117 52	-5
4.2	1.21551 44	1.45668 57		-0.20	2.43675 29	2.73630 70	-5
4.3	1.21055 69	1.43905 10					
4.4	1.20568 50	1.42269 63					
4.5	1.20089 62	1.40744 84		\bar{g}_2^{-1}	$\omega_2 g_3^{\frac{1}{3}}$	$\omega'_2 g_3^{\frac{1}{3}}/i$	$\langle \bar{g}_2 \rangle$
4.6	1.19618 86	1.39316 72		-0.20	1.62955 49	1.82987 88	-5
4.7	1.19156 00	1.37973 79		-0.25	1.66926 74	1.94863 05	-4
4.8	1.18700 83	1.36706 51		-0.30	1.68880 94	2.04569 84	-3
4.9	1.18253 18	1.35506 88		-0.35	1.69574 71	2.12452 34	-3
5.0	1.17812 83	1.34368 10		-0.40	1.69529 14	2.18836 87	-3
5.2	1.16953 35	1.32250 70					
5.4	1.16120 96	1.30316 60		-0.45	1.69080 53	2.24023 31	-2
5.6	1.15314 34	1.28537 08		-0.50	1.68433 20	2.28267 03	-2
5.8	1.14532 23	1.26889 69		-0.55	1.67705 44	2.31773 31	-2
6.0	1.13773 46	1.25356 57		-0.60	1.66962 98	2.34701 74	-2
6.2	1.13036 91	1.23923 29		-0.65	1.66240 65	2.37174 42	-2
6.4	1.12321 55	1.22577 98					
6.6	1.11626 38	1.21310 78		-0.70	1.65555 57	2.39284 34	-1
6.8	1.10950 49	1.20113 41		-0.75	1.64914 98	2.41102 56	-1
				-0.80	1.64320 64	2.42683 68	-1
7.0	1.10293 00	1.18978 83		-0.85	1.63771 44	2.44070 05	-1
7.2	1.09653 11	1.17901 03		-0.90	1.63264 84	2.45294 88	-1
7.4	1.09030 03	1.16874 82					
7.6	1.08423 04	1.15895 67		-0.95	1.62797 70	2.46384 40	-1
7.8	1.07831 46	1.14959 65		-1.00	1.62366 67	2.47359 62	-1
8.0	1.07254 63	1.14063 29					
8.2	1.06691 95	1.13203 51					
8.4	1.06142 83	1.12377 59					
8.6	1.05606 74	1.11583 09		\bar{g}_2	$\omega_2 g_3^{\frac{1}{3}}$	$\frac{\omega'_2 g_3^{\frac{1}{3}} \sqrt{6}}{i} \ln(3-\bar{g}_2)$	
8.8	1.05083 15	1.10817 84		-1.0	1.62366 67	3.03954 85	
9.0	1.04571 58	1.10079 87		-0.8	1.60646 93	3.05518 40	
9.2	1.04071 56	1.09367 80		-0.6	1.58820 63	3.06892 24	
9.4	1.03582 65	1.08678 43		-0.4	1.56918 06	3.08070 50	
9.6	1.03104 44	1.08012 69		-0.2	1.54967 81	3.09053 50	
9.8	1.02636 52	1.07367 66					
10.0	1.02178 54	1.06742 51		0.0	1.52995 40	3.09846 47	
				0.2	1.51022 67	3.10458 18	
				0.4	1.49067 44	3.10899 55	
				0.6	1.47143 75	3.11182 48	
\bar{g}_2^{-1}	$\omega g_3^{\frac{1}{3}} \bar{g}_2^{-\frac{1}{2}}$	$\omega' g_3^{\frac{1}{3}} \bar{g}_2^{-\frac{1}{2}}/i$	$\langle \bar{g}_2 \rangle$	0.8	1.45262 13	3.11318 95	
0.10	1.81701 99	1.89818 01	10	1.0	1.43430 15	3.11320 22	
0.09	1.82207 90	1.89119 06	11	1.2	1.41652 88	3.11196 36	
0.08	1.82696 90	1.88476 56	13	1.4	1.39933 41	3.10955 78	
0.07	1.83165 87	1.87888 68	14	1.6	1.38273 24	3.10604 84	
0.06	1.83611 17	1.87354 40	17	1.8	1.36672 71	3.10147 38	
0.05	1.84028 47	1.86873 53	20	2.0	1.35131 24	3.09584 00	
0.04	1.84412 45	1.86447 02	25	2.2	1.33647 63	3.08910 74	
0.03	1.84756 35	1.86077 37	33	2.4	1.32220 24	3.08116 35	
0.02	1.85050 78	1.85769 72	50	2.6	1.30847 11	3.07175 37	
0.01	1.85280 73	1.85534 90	100	2.8	1.29526 10	3.06025 10	
0.00	1.85407 47	1.85407 47	∞	3.0	1.28254 98	3.04337 67	$\Delta = 0$
	$\begin{bmatrix} (-4)1 \\ 10 \end{bmatrix}$	$\begin{bmatrix} (-4)1 \\ 10 \end{bmatrix}$			$\begin{bmatrix} (-3)3 \\ 10 \end{bmatrix}$	$\begin{bmatrix} (-3)3 \\ 11 \end{bmatrix}$	
	$\frac{\sqrt{6}}{12} = 0.20412$	4145			$\frac{\sqrt{6}}{6} = 0.40824$	829	