

#	t0	x0	v0	w0	t1	x1	v1	w1	p	r min	r max
1	0.770007347	2.06E-24	-2.27E-24	-6.373271421	1.246735567	1.88E-24	1.72E-23	1.839916716	1	6.58E-12	8.14E-05
2	0.246735567	-4.17E-23	-9.67E-23	1.839916716	0.770007347	2.04E-24	-5.66E-23	-6.373271421	1	1.03E-11	8.14E-05
3	0.680836648	-1.48E-31	-4.03E-31	-8.928287015	0.893024766	4.86E-31	1.31E-29	0.299474976	2	1.44E-11	3.47E-05
4	0.805474808	6.34E-23	2.70E-21	-6.062247064	2.352473849	-3.40E-22	-2.71E-22	-6.463498678	2	1.95E-12	3.16E-05
5	0.73524472	1.69E-32	3.46E-31	-8.987062703	1.101783671	-1.71E-31	-7.41E-31	2.546877251	2	5.36E-12	7.15E-05
6	0.763822381	-3.02E-29	-8.17E-29	-4.905	1.763822381	5.15E-29	8.17E-29	-4.905	2	8.61E-12	1.23E-04
7	0.893024766	1.19E-24	1.50E-23	0.299474976	2.680836648	-1.01E-25	5.03E-24	-8.928287015	2	5.83E-11	3.47E-05
8	0.101783671	5.56E-21	1.02E-20	2.546877251	1.73524472	-4.48E-22	-1.14E-20	-8.987062703	2	2.07E-11	7.15E-05
9	0.236177619	1.03E-26	6.56E-27	-4.905	1.236177619	3.75E-27	-6.56E-27	-4.905	2	1.72E-11	1.25E-04
10	0.352473849	-5.10E-26	-3.89E-26	-6.463498678	0.805474808	9.56E-27	4.06E-25	-6.062247064	2	5.51E-12	3.16E-05
11	0.127820036	0.67058313	1.975100358	5.583667784	1.772061083	-0.032076507	-0.42734588	-9.650681244	2	1.78E-11	5.12E-05
12	0.127820036	-0.67058313	-1.975100358	5.583667784	1.772061083	0.032076507	0.42734588	-9.650681244	2	2.07E-11	5.12E-05
13	0.823013994	-4.32E-27	-2.11E-26	-5.322790023	2.721630858	-7.28E-28	-3.95E-26	-9.358830148	3	5.89E-12	3.43E-05
14	0.212076987	-2.099509068	-1.495386375	0.603685512	1.791766012	0.024404613	1.344513793	-14.55490141	3	3.07E-12	1.21E-05
15	0.895800719	4.70E-23	2.29E-21	-4.763146084	3.407809735	-3.96E-23	-2.53E-23	-11.86108773	3	2.04E-12	1.37E-05
16	0.20806545	0.029270074	1.811820592	-14.53488604	1.803900291	-2.514825275	-1.594209678	-1.098620952	3	2.05E-12	1.36E-05
17	0.791766012	0.024404613	1.344513793	-14.55490141	2.212076987	-2.099509068	-1.495386375	0.603685512	3	6.15E-13	1.21E-05
18	0.721630858	-1.13E-29	-8.08E-28	-9.358830148	1.823013994	-7.70E-29	1.70E-28	-5.322790023	3	9.93E-13	3.43E-05
19	0.407809735	-6.31E-34	-3.59E-34	-11.86108773	0.895800719	3.49E-34	3.65E-32	-4.763146084	3	4.90E-12	1.37E-05
20	0.791897271	-0.028589279	-1.10736173	-14.58836531	1.791897271	2.18613418	2.214723459	4.651730613	3	2.00E-11	3.05E-05
21	0.791766012	-0.024404613	-1.344513793	-14.55490141	2.212076987	2.099509068	1.495386375	0.603685512	3	1.07E-12	1.21E-05
22	0.770048023	3.40E-26	-1.27E-25	-8.854451029	2.226553395	-2.56E-25	-1.11E-25	-5.783885836	3	2.51E-12	2.66E-05
23	0.317874289	-8.07E-31	-2.82E-29	-10.62953077	1.136321823	4.61E-30	6.39E-30	-4.203691521	3	1.46E-12	2.80E-05
24	0.226553395	-6.16E-31	-3.64E-31	-5.783885836	1.770048023	-6.17E-32	-3.76E-31	-8.854451029	3	1.48E-12	2.66E-05
25	0.803900291	-2.514825275	-1.594209678	-1.098620952	2.20806545	0.029270074	1.811820592	-14.53488604	3	4.45E-12	1.36E-05
26	0.791897271	2.18613418	2.214723459	4.651730613	2.791897271	-0.028589279	-1.10736173	-14.58836531	3	6.17E-12	3.05E-05
27	0.136321823	-3.40E-29	-3.11E-28	-4.203691521	2.317874289	5.97E-30	2.39E-28	-10.62953077	3	5.27E-12	2.80E-05
28	0.208102729	-0.028589279	-1.10736173	-14.58836531	1.208102729	2.18613418	2.214723459	4.651730613	3	2.83E-12	2.58E-05
29	0.208102729	0.028589279	1.10736173	-14.58836531	1.208102729	-2.18613418	-2.214723459	4.651730613	3	1.92E-12	2.58E-05
30	0.208102729	2.18613418	2.214723459	4.651730613	2.208102729	-0.028589279	-1.10736173	-14.58836531	3	2.20E-12	2.58E-05
31	0.212076987	2.099509068	1.495386375	0.603685512	1.791766012	-0.024404613	-1.344513793	-14.55490141	3	8.00E-13	1.21E-05
32	0.208102729	-2.18613418	-2.214723459	4.651730613	2.208102729	0.028589279	1.10736173	-14.58836531	3	6.16E-12	2.58E-05
33	0.803900291	2.514825275	1.594209678	-1.098620952	2.20806545	-0.029270074	-1.811820592	-14.53488604	3	2.04E-12	1.36E-05
34	0.20806545	-0.029270074	-1.811820592	-14.53488604	1.803900291	2.514825275	1.594209678	-1.098620952	3	2.67E-12	1.36E-05
35	0.791897271	-2.18613418	-2.214723459	4.651730613	2.791897271	0.028589279	1.10736173	-14.58836531	3	1.42E-11	3.05E-05
36	0.791897271	0.028589279	1.10736173	-14.58836531	1.791897271	-2.18613418	-2.214723459	4.651730613	3	3.08E-11	3.05E-05
37	0.193607357	2.689230348	2.712471198	9.557839452	3.193607357	-0.02324085	-0.904157066	-19.53594648	4	9.64E-12	1.85E-05
38	0.193607357	-0.020083493	-1.566045976	-19.49419331	2.193607357	3.11200846	1.566045976	-0.125806693	4	2.66E-12	7.83E-06
39	0.193607357	0.020083493	1.566045976	-19.49419331	2.193607357	-3.11200846	-1.566045976	-0.125806693	4	2.99E-12	7.83E-06
40	0.182254941	2.793769355	2.044845746	5.938152662	2.806223887	-0.020001893	-1.072334051	-19.52404236	4	1.56E-12	9.23E-06
41	0.806223887	-0.020001893	-1.072334051	-19.52404236	2.182254941	2.793769355	2.044845746	5.938152662	4	5.54E-13	9.23E-06
42	0.193607357	-2.689230348	-2.712471198	9.557839452	3.193607357	0.02324085	0.904157066	-19.53594648	4	1.13E-11	1.85E-05
43	0.806223887	0.020001893	1.072334051	-19.52404236	2.182254941	-2.793769355	-2.044845746	5.938152662	4	6.97E-13	9.23E-06
44	0.287164966	2.71E-27	4.13E-27	-11.28028656	1.834957678	7.07E-29	-1.56E-26	-8.776666228	4	1.72E-11	1.06E-05
45	0.193607357	0.02324085	0.904157066	-19.53594648	1.193607357	-2.689230348	-2.712471198	9.557839452	4	9.20E-12	1.85E-05
46	0.182254941	-2.793769355	-2.044845746	5.938152662	2.806223887	0.020001893	1.072334051	-19.52404236	4	2.06E-12	9.23E-06

47	0.137064548	-1.90E-23	-1.54E-22	-5.754787225	2.715104624	4.47E-24	2.55E-22	-13.31815671	4	3.36E-12	1.44E-05
48	0.193689198	0.022280696	2.289099647	-19.43525401	2.830746445	-3.097631079	-1.183103545	-6.34501613	4	3.24E-12	4.63E-06
49	0.193689198	-0.022280696	-2.289099647	-19.43525401	2.830746445	3.097631079	1.183103545	-6.34501613	4	2.99E-12	4.63E-06
50	0.193607357	-0.02324085	-0.904157066	-19.53594648	1.193607357	2.689230348	2.712471198	9.557839452	4	5.79E-12	1.85E-05
51	0.806392643	2.689230348	2.712471198	9.557839452	3.806392643	-0.02324085	-0.904157066	-19.53594648	4	1.73E-11	2.58E-05
52	0.806392643	-0.020083493	-1.566045976	-19.49419331	2.806392643	3.11200846	1.566045976	-0.125806693	4	7.35E-13	7.30E-06
53	0.830746445	-3.097631079	-1.183103545	-6.34501613	2.193689198	0.022280696	2.289099647	-19.43525401	4	2.51E-12	4.63E-06
54	0.806392643	3.11200846	1.566045976	-0.125806693	2.806392643	-0.020083493	-1.566045976	-19.49419331	4	1.65E-13	7.30E-06
55	0.834957678	-7.25E-26	-1.41E-23	-8.776666228	3.287164966	2.27E-24	1.64E-24	-11.28028656	4	7.91E-12	1.06E-05
56	0.806392643	0.020083493	1.566045976	-19.49419331	2.806392643	-3.11200846	-1.566045976	-0.125806693	4	3.82E-13	7.30E-06
57	0.193607357	-3.11200846	-1.566045976	-0.125806693	2.193607357	0.020083493	1.566045976	-19.49419331	4	3.89E-12	7.83E-06
58	0.222249581	-4.30E-26	-4.60E-27	-9.81	2.222249581	-3.38E-26	4.60E-27	-9.81	4	1.72E-11	1.89E-05
59	0.830746445	3.097631079	1.183103545	-6.34501613	2.193689198	-0.022280696	-2.289099647	-19.43525401	4	2.64E-12	4.63E-06
60	0.777750419	-2.25E-25	2.53E-26	-9.81	2.777750419	-2.76E-25	-2.54E-26	-9.81	4	3.56E-13	1.86E-05
61	0.715104624	-2.56E-32	-1.79E-30	-13.31815671	2.137064548	1.20E-31	1.03E-31	-5.754787225	4	4.78E-12	1.44E-05
62	0.806392643	-0.02324085	-0.904157066	-19.53594648	1.806392643	2.689230348	2.712471198	9.557839452	4	1.14E-11	2.58E-05
63	0.806392643	-3.11200846	-1.566045976	-0.125806693	2.806392643	0.020083493	1.566045976	-19.49419331	4	4.37E-13	7.30E-06
64	0.806392643	0.02324085	0.904157066	-19.53594648	1.806392643	-2.689230348	-2.712471198	9.557839452	4	1.27E-11	2.58E-05
65	0.193607357	3.11200846	1.566045976	-0.125806693	2.193607357	-0.020083493	-1.566045976	-19.49419331	4	3.05E-12	7.83E-06
66	0.806392643	-2.689230348	-2.712471198	9.557839452	3.806392643	0.02324085	0.904157066	-19.53594648	4	1.08E-11	2.58E-05
67	0.178604375	-3.11200846	-0.783022988	-14.77790335	1.178604375	0.020083493	3.132091953	-24.27338661	5	1.17E-12	1.76E-06
68	0.180845845	3.774959294	1.606510938	1.272123451	2.821367359	-0.015568702	-1.435522482	-24.42993126	5	1.52E-12	3.23E-06
69	0.340489037	3.59E-30	3.66E-29	-16.3572926	1.929769399	-9.00E-31	-6.97E-29	-8.594377605	5	3.70E-13	5.06E-06
70	0.160269341	3.320209415	2.49259678	11.20147224	3.821243443	-0.017442226	-0.911684035	-24.45635342	5	3.38E-12	7.21E-06
71	0.929769399	-7.18E-38	-3.45E-37	-8.594377605	4.340489037	-1.37E-37	-5.88E-36	-16.3572926	5	2.91E-13	5.06E-06
72	0.821395625	-3.819650803	-1.918006778	4.779464521	3.821395625	0.016362752	1.278671185	-24.44130968	5	3.77E-13	6.67E-06
73	0.83840603	-1.24E-34	2.31E-32	-10.24492456	3.735558799	1.31E-33	5.86E-32	-14.26100952	5	1.43E-12	8.48E-06
74	0.851625025	3.561027227	0.974656609	-11.57484097	2.178697836	-0.018815534	-2.697548116	-24.33562009	5	9.85E-12	2.08E-06
75	0.160269341	-3.320209415	-2.49259678	11.20147224	3.821243443	0.017442226	0.911684035	-24.45635342	5	6.47E-12	7.21E-06
76	0.178604375	3.819650803	1.918006778	4.779464521	3.178604375	-0.016362752	-1.278671185	-24.44130968	5	6.71E-12	6.25E-06
77	0.178604375	0.016362752	1.918006778	-24.39946452	3.178604375	-3.819650803	-1.278671185	-4.98869032	5	7.70E-12	3.11E-06
78	0.178604375	0.016362752	1.278671185	-24.44130968	2.178604375	-3.819650803	-1.918006778	4.779464521	5	1.42E-12	6.25E-06
79	0.207837027	-4.32E-29	-4.50E-28	-11.11296512	2.778626865	4.14E-29	7.74E-29	-13.36784967	5	5.85E-12	7.38E-06
80	0.821395625	0.016362752	1.278671185	-24.44130968	2.821395625	-3.819650803	-1.918006778	4.779464521	5	5.16E-12	6.67E-06
81	0.114769377	6.96E-35	-5.05E-32	-9.042667727	3.303214455	1.23E-33	-1.23E-32	-15.5501268	5	5.24E-12	7.74E-06
82	0.821243443	-0.017442226	-0.911684035	-24.45635342	2.160269341	3.320209415	2.49259678	11.20147224	5	9.33E-12	7.21E-06
83	0.178697836	0.018815534	2.697548116	-24.33562009	3.851625025	-3.561027227	-0.974656609	-11.57484097	5	1.25E-12	2.08E-06
84	0.821395625	-0.016362752	-1.918006778	-24.39946452	3.821395625	3.819650803	1.278671185	-4.98869032	5	4.37E-12	2.71E-06
85	0.178604375	-0.020083493	-0.783022988	-24.46209665	1.178604375	3.11200846	3.132091953	14.46338661	5	2.07E-12	1.37E-05
86	0.82837957	-4.004867142	-1.517629979	-1.564114965	3.178595843	0.01652408	1.711072836	-24.41818792	5	1.87E-12	3.90E-06
87	0.178604375	0.020083493	0.783022988	-24.46209665	1.178604375	-3.11200846	-3.132091953	14.46338661	5	1.22E-11	1.37E-05
88	0.178697836	-0.018815534	-2.697548116	-24.33562009	3.851625025	3.561027227	0.974656609	-11.57484097	5	2.65E-12	2.08E-06
89	0.821395625	3.819650803	1.918006778	4.779464521	3.821395625	-0.016362752	-1.278671185	-24.44130968	5	6.74E-13	6.67E-06
90	0.178604375	3.11200846	3.132091953	14.46338661	4.178604375	-0.020083493	-0.783022988	-24.46209665	5	3.96E-12	1.37E-05
91	0.821367359	0.015568702	1.435522482	-24.42993126	3.180845845	-3.774959294	-1.606510938	1.272123451	5	1.59E-12	3.23E-06
92	0.178604375	-3.819650803	-1.918006778	4.779464521	3.178604375	0.016362752	1.278671185	-24.44130968	5	6.30E-12	6.25E-06
93	0.778626865	1.18E-25	1.29E-23	-13.36784967	3.207837027	-2.34E-24	-1.21E-24	-11.11296512	5	7.38E-13	7.38E-06

94	0.821243443	0.017442226	0.911684035	-24.45635342	2.160269341	-3.320209415	-2.49259678	11.20147224	5	1.20E-11	7.21E-06
95	0.178604375	-0.016362752	-1.278671185	-24.44130968	2.178604375	3.819650803	1.918006778	4.779464521	5	1.94E-12	6.25E-06
96	0.735558799	4.32E-29	3.10E-26	-14.26100952	2.83840603	-2.28E-28	2.34E-28	-10.24492456	5	4.70E-13	8.48E-06
97	0.178604375	-3.819650803	-1.278671185	-4.98869032	2.178604375	0.016362752	1.918006778	-24.39946452	5	9.53E-12	3.11E-06
98	0.178604375	-3.11200846	-3.132091953	14.46338661	4.178604375	0.020083493	0.783022988	-24.46209665	5	1.24E-11	1.37E-05
99	0.821395625	-0.016362752	-1.278671185	-24.44130968	2.821395625	3.819650803	1.918006778	4.779464521	5	5.56E-12	6.67E-06
100	0.303214455	2.92E-32	5.87E-30	-15.5501268	2.114769377	-2.14E-31	-2.54E-31	-9.042667727	5	5.80E-12	7.74E-06
101	0.851625025	-3.561027227	-0.974656609	-11.57484097	2.178697836	0.018815534	2.697548116	-24.33562009	5	9.14E-13	2.08E-06
102	0.178604375	-0.020083493	-3.132091953	-24.27338661	4.178604375	3.11200846	0.783022988	-14.77790335	5	1.39E-12	1.76E-06
103	0.178595843	0.01652408	1.711072836	-24.41818792	2.82837957	-4.004867142	-1.517629979	-1.564114965	5	3.85E-12	3.90E-06
104	0.821395625	3.819650803	1.278671185	-4.98869032	2.821395625	-0.016362752	-1.918006778	-24.39946452	5	4.22E-12	2.71E-06
105	0.821395625	-3.819650803	-1.278671185	-4.98869032	2.821395625	0.016362752	1.918006778	-24.39946452	5	5.04E-12	2.71E-06
106	0.821395625	3.11200846	3.132091953	14.46338661	4.821395625	-0.020083493	-0.783022988	-24.46209665	5	5.10E-12	2.23E-05
107	0.180845845	-3.774959294	-1.606510938	1.272123451	2.821367359	0.015568702	1.435522482	-24.42993126	5	1.87E-12	3.23E-06
108	0.821395625	0.016362752	1.918006778	-24.39946452	3.821395625	-3.819650803	-1.278671185	-4.98869032	5	4.42E-12	2.71E-06
109	0.178604375	3.11200846	0.783022988	-14.77790335	1.178604375	-0.020083493	-3.132091953	-24.27338661	5	1.23E-12	1.76E-06
110	0.178604375	-0.016362752	-1.918006778	-24.39946452	3.178604375	3.819650803	1.278671185	-4.98869032	5	8.43E-12	3.11E-06
111	0.821367359	-0.015568702	-1.435522482	-24.42993126	3.180845845	3.774959294	1.606510938	1.272123451	5	1.76E-12	3.23E-06
112	0.178595843	-0.01652408	-1.711072836	-24.41818792	2.82837957	4.004867142	1.517629979	-1.564114965	5	2.37E-12	3.90E-06
113	0.82837957	4.004867142	1.517629979	-1.564114965	3.178595843	-0.01652408	-1.711072836	-24.41818792	5	2.11E-12	3.90E-06
114	0.821395625	-0.020083493	-0.783022988	-24.46209665	1.821395625	3.11200846	3.132091953	14.46338661	5	1.40E-11	2.23E-05
115	0.178604375	3.819650803	1.278671185	-4.98869032	2.178604375	-0.016362752	-1.918006778	-24.39946452	5	7.94E-12	3.11E-06
116	0.162896925	0.013978507	2.015971496	-29.3216202	3.849260057	-4.650247471	-1.265264927	-6.801243702	6	1.97E-12	1.79E-06
117	0.158779376	4.468984857	1.930654878	6.546121782	3.837079557	-0.013416224	-1.218606656	-29.36182978	6	1.74E-12	2.61E-06
118	0.162884593	-3.483845312	-3.501785259	19.36871263	5.162884593	0.017939947	0.700357052	-29.37974253	6	1.48E-11	1.04E-05
119	0.162884593	0.014155351	1.10736173	-29.36729963	2.162884593	-4.415291568	-2.214723459	9.684599252	6	2.00E-12	4.79E-06
120	0.264086007	9.29E-25	5.12E-25	-16.22210216	2.848812133	-4.35E-26	-1.29E-23	-13.3781432	6	1.30E-12	3.84E-06
121	0.837079557	-0.013416224	-1.218606656	-29.36182978	3.158779376	4.468984857	1.930654878	6.546121782	6	3.27E-12	2.61E-06
122	0.918159222	-4.60E-31	-2.20E-30	-10.70086303	4.695295287	-1.67E-31	-3.31E-29	-18.6458979	6	7.71E-12	4.61E-06
123	0.837079557	0.013416224	1.218606656	-29.36182978	3.158779376	-4.468984857	-1.930654878	6.546121782	6	3.36E-12	2.61E-06
124	0.162884593	-0.013341027	-1.566045976	-29.34642936	3.162884593	4.684796902	1.566045976	-0.083570644	6	4.12E-13	2.65E-06
125	0.162884593	-0.014155351	-1.10736173	-29.36729963	2.162884593	4.415291568	2.214723459	9.684599252	6	9.54E-13	4.79E-06
126	0.720846235	5.81E-29	3.17E-27	-18.13389651	3.117548139	-6.60E-28	-9.51E-28	-11.06466226	6	1.24E-12	4.63E-06
127	0.170504875	4.561672436	1.372424752	-3.345765658	2.837115409	-0.013153776	-1.715595942	-29.33597769	6	1.53E-12	1.49E-06
128	0.162884593	-0.014155351	-2.214723459	-29.30459925	4.162884593	4.415291568	1.10736173	-9.872700374	6	4.54E-13	1.52E-06
129	0.162884593	4.415291568	1.10736173	-9.872700374	2.162884593	-0.014155351	-2.214723459	-29.30459925	6	4.86E-13	1.52E-06
130	0.837115407	0.013341027	1.566045976	-29.34642936	3.837115407	-4.684796902	-1.566045976	-0.083570644	6	4.92E-13	2.48E-06
131	0.162884593	0.013341027	1.566045976	-29.34642936	3.162884593	-4.684796902	-1.566045976	-0.083570644	6	4.21E-13	2.65E-06
132	0.849260057	4.650247471	1.265264927	-6.801243702	3.162896925	-0.013978507	-2.015971496	-29.3216202	6	2.98E-12	1.79E-06
133	0.162884593	-4.684796902	-1.566045976	-0.083570644	3.162884593	0.013341027	1.566045976	-29.34642936	6	4.99E-13	2.65E-06
134	0.837115407	-4.415291568	-2.214723459	9.684599252	4.837115407	0.014155351	1.10736173	-29.36729963	6	7.29E-12	5.75E-06
135	0.791897271	2.80E-45	-1.12E-43	-14.715	3.791897271	-4.20E-45	1.30E-43	-14.715	6	9.11E-13	5.67E-06
136	0.837115409	0.013153776	1.715595942	-29.33597769	4.170504875	-4.561672436	-1.372424752	-3.345765658	6	1.35E-13	1.49E-06
137	0.162884593	3.483845312	0.700357052	-19.67025747	1.162884593	-0.017939947	-3.501785259	-29.17871263	6	2.08E-12	9.81E-07
138	0.837115407	0.014155351	1.10736173	-29.36729963	2.837115407	-4.415291568	-2.214723459	9.684599252	6	6.28E-12	5.75E-06
139	0.837115407	-4.415291568	-1.10736173	-9.872700374	2.837115407	0.014155351	2.214723459	-29.30459925	6	2.01E-13	1.27E-06
140	0.837115407	-0.013341027	-1.566045976	-29.34642936	3.837115407	4.684796902	1.566045976	-0.083570644	6	6.43E-13	2.48E-06

141	0.158779376	-4.468984857	-1.930654878	6.546121782	3.837079557	0.013416224	1.218606656	-29.36182978	6	4.89E-13	2.61E-06
142	0.162896925	-0.013978507	-2.015971496	-29.3216202	3.849260057	4.650247471	1.265264927	-6.801243702	6	3.76E-12	1.79E-06
143	0.837115407	4.684796902	1.566045976	-0.083570644	3.837115407	-0.013341027	-1.566045976	-29.34642936	6	1.00E-12	2.48E-06
144	0.695295287	-1.03E-29	-1.87E-27	-18.6458979	2.918159222	-4.34E-29	5.94E-29	-10.70086303	6	6.08E-12	4.61E-06
145	0.837115407	-4.684796902	-1.566045976	-0.083570644	3.837115407	0.013341027	1.566045976	-29.34642936	6	3.28E-13	2.48E-06
146	0.849260057	-4.650247471	-1.265264927	-6.801243702	3.162896925	0.013978507	2.015971496	-29.3216202	6	1.00E-12	1.79E-06
147	0.837115407	4.415291568	2.214723459	9.684599252	4.837115407	-0.014155351	-1.10736173	-29.36729963	6	3.77E-12	5.75E-06
148	0.162884593	-0.017939947	-3.501785259	-29.17871263	5.162884593	3.483845312	0.700357052	-19.67025747	6	2.37E-12	9.81E-07
149	0.208102729	-2.49E-28	-1.04E-28	-14.715	3.208102729	6.17E-29	1.03E-28	-14.715	6	1.39E-12	5.78E-06
150	0.162884593	0.017939947	0.700357052	-29.37974253	1.162884593	-3.483845312	-3.501785259	19.36871263	6	1.42E-11	1.04E-05
151	0.162884593	3.483845312	3.501785259	19.36871263	5.162884593	-0.017939947	-0.700357052	-29.37974253	6	8.89E-12	1.04E-05
152	0.162884593	4.684796902	1.566045976	-0.083570644	3.162884593	-0.013341027	-1.566045976	-29.34642936	6	5.48E-13	2.65E-06
153	0.162884593	-4.415291568	-2.214723459	9.684599252	4.162884593	0.014155351	1.10736173	-29.36729963	6	2.57E-12	4.79E-06
154	0.837115407	-0.014155351	-2.214723459	-29.30459925	4.837115407	4.415291568	1.10736173	-9.872700374	6	2.32E-13	1.27E-06
155	0.162884593	0.017939947	3.501785259	-29.17871263	5.162884593	-3.483845312	-0.700357052	-19.67025747	6	3.31E-12	9.81E-07
156	0.162884593	-3.483845312	-0.700357052	-19.67025747	1.162884593	0.017939947	3.501785259	-29.17871263	6	2.12E-12	9.81E-07
157	0.170504875	-4.561672436	-1.372424752	-3.345765658	2.837115409	0.013153776	1.715595942	-29.33597769	6	1.46E-12	1.49E-06
158	0.162884593	4.415291568	2.214723459	9.684599252	4.162884593	-0.014155351	-1.10736173	-29.36729963	6	2.71E-12	4.79E-06
159	0.162884593	-0.017939947	-0.700357052	-29.37974253	1.162884593	3.483845312	3.501785259	19.36871263	6	9.47E-12	1.04E-05
160	0.162884593	0.014155351	2.214723459	-29.30459925	4.162884593	-4.415291568	-1.10736173	-9.872700374	6	4.20E-13	1.52E-06
161	0.117548139	-6.15E-31	-2.69E-31	-11.06466226	3.720846235	-8.66E-33	2.66E-30	-18.13389651	6	1.72E-12	4.63E-06
162	0.837115409	-0.013153776	-1.715595942	-29.33597769	4.170504875	4.561672436	1.372424752	-3.345765658	6	7.25E-13	1.49E-06
163	0.837115407	4.415291568	1.10736173	-9.872700374	2.837115407	-0.014155351	-2.214723459	-29.30459925	6	1.54E-13	1.27E-06
164	0.837115407	-0.014155351	-1.10736173	-29.36729963	2.837115407	4.415291568	2.214723459	9.684599252	6	4.17E-12	5.75E-06
165	0.162884593	-4.415291568	-1.10736173	-9.872700374	2.162884593	0.014155351	2.214723459	-29.30459925	6	3.68E-13	1.52E-06
166	0.837115407	0.014155351	2.214723459	-29.30459925	4.837115407	-4.415291568	-1.10736173	-9.872700374	6	1.89E-13	1.27E-06
167	0.146148086	-0.011597495	-1.68606361	-34.25879016	3.858853223	5.53099075	1.492870573	-2.15411493	7	9.17E-13	1.54E-06
168	0.146151122	-0.016362752	-3.836013556	-34.08392904	6.146151122	3.819650803	0.639335593	-24.56684516	7	7.28E-14	5.85E-07
169	0.138359313	-5.05128901	-2.216324848	11.8139157	4.85381362	0.012006376	1.073766186	-34.28185682	7	3.73E-11	2.13E-06
170	0.189005086	6.13E-46	2.19E-44	-16.12228852	3.788270142	-1.31E-46	-1.54E-44	-18.18191558	7	2.85E-12	2.88E-06
171	0.312882243	2.30E-34	1.29E-31	-21.0919415	2.957139573	4.16E-33	8.34E-32	-13.41974136	7	8.06E-13	2.08E-06
172	0.853848878	0.012652797	0.990454441	-34.28487193	2.853848878	-4.939619409	-2.476136103	14.58967981	7	5.84E-12	5.06E-06
173	0.853848878	0.011545431	1.356235599	-34.2723667	3.853848878	-5.413396965	-1.808314132	4.821488937	7	1.51E-12	2.33E-06
174	0.147670906	5.386676046	1.638810866	1.946445213	3.853838465	-0.011292348	-1.456482555	-34.26740346	7	4.50E-13	1.22E-06
175	0.146151122	0.016362752	3.836013556	-34.08392904	6.146151122	-3.819650803	-0.639335593	-24.56684516	7	5.78E-14	5.85E-07
176	0.146151122	5.413396965	1.808314132	4.821488937	4.146151122	-0.011545431	-1.356235599	-34.2723667	7	2.18E-12	2.28E-06
177	0.853848878	0.011545431	1.808314132	-34.25148894	4.853848878	-5.413396965	-1.356235599	-4.967633297	7	5.56E-13	1.17E-06
178	0.85381362	0.012006376	1.073766186	-34.28185682	3.138359313	-5.05128901	-2.216324848	11.8139157	7	2.78E-11	2.13E-06
179	0.146151122	0.012652797	2.476136103	-34.20967981	5.146151122	-4.939619409	-0.990454441	-14.76512807	7	1.17E-13	8.45E-07
180	0.146169148	0.012374871	2.28794044	-34.22495032	4.869059184	-5.197517101	-1.103115239	-12.04961098	7	1.30E-12	9.56E-07
181	0.290368041	-1.14E-30	-3.22E-29	-20.50583722	3.088383081	6.74E-31	4.01E-29	-13.88179833	7	1.64E-12	3.20E-06
182	0.146151122	-3.819650803	-0.639335593	-24.56684516	1.146151122	0.016362752	3.836013556	-34.08392904	7	9.00E-14	5.85E-07
183	0.957139573	-8.41E-45	-5.61E-44	-13.41974136	5.312882243	-5.78E-45	-3.81E-43	-21.0919415	7	1.51E-12	2.08E-06
184	0.146151122	-0.016362752	-0.639335593	-34.29315484	1.146151122	3.819650803	3.836013556	24.27392904	7	5.01E-12	8.03E-06
185	0.853838465	0.011292348	1.456482555	-34.26740346	4.147670906	-5.386676046	-1.638810866	1.946445213	7	8.33E-13	1.22E-06
186	0.853848878	5.413396965	1.356235599	-4.967633297	3.853848878	-0.011545431	-1.808314132	-34.25148894	7	8.14E-13	1.17E-06
187	0.788270142	-7.51E-38	-8.06E-36	-18.18191558	4.189005086	5.63E-37	3.06E-36	-16.12228852	7	2.61E-12	2.88E-06

188	0.146151122	0.016362752	0.639335593	-34.29315484	1.146151122	-3.819650803	-3.836013556	24.27392904	7	4.13E-12	8.03E-06
189	0.146151122	0.011545431	1.808314132	-34.25148894	4.146151122	-5.413396965	-1.356235599	-4.967633297	7	3.59E-13	1.33E-06
190	0.74960572	-3.18E-43	-4.60E-41	-19.15777123	3.854782228	-2.82E-42	-1.13E-40	-15.16358251	7	1.71E-12	3.27E-06
191	0.853848878	5.413396965	1.808314132	4.821488937	4.853848878	-0.011545431	-1.356235599	-34.2723667	7	2.46E-12	2.33E-06
192	0.146151122	5.413396965	1.356235599	-4.967633297	3.146151122	-0.011545431	-1.808314132	-34.25148894	7	8.45E-13	1.33E-06
193	0.146151122	-0.011545431	-1.356235599	-34.2723667	3.146151122	5.413396965	1.808314132	4.821488937	7	4.62E-12	2.28E-06
194	0.147670906	-5.386676046	-1.638810866	1.946445213	3.853838465	0.011292348	1.456482555	-34.26740346	7	5.57E-13	1.22E-06
195	0.869059184	5.197517101	1.103115239	-12.04961098	3.146169148	-0.012374871	-2.28794044	-34.22495032	7	1.71E-12	9.56E-07
196	0.853848878	-0.011545431	-1.356235599	-34.2723667	3.853848878	5.413396965	1.808314132	4.821488937	7	1.24E-12	2.33E-06
197	0.854782228	-1.25E-52	-3.34E-52	-15.16358251	4.74960572	-4.18E-53	-1.47E-50	-19.15777123	7	2.43E-12	3.27E-06
198	0.146151122	3.819650803	3.836013556	24.27392904	6.146151122	-0.016362752	-0.639335593	-34.29315484	7	1.76E-12	8.03E-06
199	0.853848878	-0.011545431	-1.808314132	-34.25148894	4.853848878	5.413396965	1.356235599	-4.967633297	7	8.36E-13	1.17E-06
200	0.858853223	5.53099075	1.492870573	-2.15411493	4.146148086	-0.011597495	-1.68606361	-34.25879016	7	1.03E-12	1.54E-06
201	0.146151122	3.819650803	0.639335593	-24.56684516	1.146151122	-0.016362752	-3.836013556	-34.08392904	7	4.23E-13	5.85E-07
202	0.146151122	-4.939619409	-0.990454441	-14.76512807	2.146151122	0.012652797	2.476136103	-34.20967981	7	3.91E-13	8.45E-07
203	0.853848878	4.939619409	0.990454441	-14.76512807	2.853848878	-0.012652797	-2.476136103	-34.20967981	7	1.32E-12	7.04E-07
204	0.853848878	-5.413396965	-1.808314132	4.821488937	4.853848878	0.011545431	1.356235599	-34.2723667	7	3.24E-13	2.33E-06
205	0.853848878	-5.413396965	-1.356235599	-4.967633297	3.853848878	0.011545431	1.808314132	-34.25148894	7	3.71E-13	1.17E-06
206	0.85381362	-0.012006376	-1.073766186	-34.28185682	3.138359313	5.05128901	2.216324848	11.8139157	7	2.11E-11	2.13E-06
207	0.853848878	-4.939619409	-2.476136103	14.58967981	5.853848878	0.012652797	0.990454441	-34.28487193	7	3.49E-12	5.06E-06
208	0.146151122	0.012652797	0.990454441	-34.28487193	2.146151122	-4.939619409	-2.476136103	14.58967981	7	6.33E-12	3.76E-06
209	0.146151122	-3.819650803	-3.836013556	24.27392904	6.146151122	0.016362752	0.639335593	-34.29315484	7	8.40E-12	8.03E-06
210	0.853848878	4.939619409	2.476136103	14.58967981	5.853848878	-0.012652797	-0.990454441	-34.28487193	7	5.90E-12	5.06E-06
211	0.869059184	-5.197517101	-1.103115239	-12.04961098	3.146169148	0.012374871	2.28794044	-34.22495032	7	1.79E-12	9.56E-07
212	0.138359313	5.05128901	2.216324848	11.8139157	4.85381362	-0.012006376	-1.073766186	-34.28185682	7	4.31E-11	2.13E-06
213	0.088383081	9.23E-71	1.65E-68	-13.88179833	4.290368041	-3.83E-70	-5.06E-70	-20.50583722	7	5.29E-13	3.20E-06
214	0.853848878	-0.012652797	-0.990454441	-34.28487193	2.853848878	4.939619409	2.476136103	14.58967981	7	7.99E-12	5.06E-06
215	0.146151122	-0.011545431	-1.808314132	-34.25148894	4.146151122	5.413396965	1.356235599	-4.967633297	7	1.67E-12	1.33E-06
216	0.146169148	-0.012374871	-2.28794044	-34.22495032	4.869059184	5.197517101	1.103115239	-12.04961098	7	1.29E-12	9.56E-07
217	0.146151122	4.939619409	2.476136103	14.58967981	5.146151122	-0.012652797	-0.990454441	-34.28487193	7	4.03E-12	3.76E-06
218	0.858853223	-5.53099075	-1.492870573	-2.15411493	4.146148086	0.011597495	1.68606361	-34.25879016	7	5.45E-13	1.54E-06
219	0.146151122	0.011545431	1.356235599	-34.2723667	3.146151122	-5.413396965	-1.808314132	4.821488937	7	4.11E-12	2.28E-06
220	0.853848878	-4.939619409	-0.990454441	-14.76512807	2.853848878	0.012652797	2.476136103	-34.20967981	7	2.90E-12	7.04E-07
221	0.853838465	-0.011292348	-1.456482555	-34.26740346	4.147670906	5.386676046	1.638810866	1.946445213	7	4.16E-13	1.22E-06
222	0.146151122	-0.012652797	-2.476136103	-34.20967981	5.146151122	4.939619409	0.990454441	-14.76512807	7	1.28E-13	8.45E-07
223	0.146148086	0.011597495	1.68606361	-34.25879016	3.858853223	-5.53099075	-1.492870573	-2.15411493	7	7.22E-13	1.54E-06
224	0.146151122	-4.939619409	-2.476136103	14.58967981	5.146151122	0.012652797	0.990454441	-34.28487193	7	3.13E-12	3.76E-06
225	0.146151122	-0.012652797	-0.990454441	-34.28487193	2.146151122	4.939619409	2.476136103	14.58967981	7	7.00E-12	3.76E-06
226	0.146151122	-5.413396965	-1.808314132	4.821488937	4.146151122	0.011545431	1.356235599	-34.2723667	7	1.03E-12	2.28E-06
227	0.853848878	-0.012652797	-2.476136103	-34.20967981	5.853848878	4.939619409	0.990454441	-14.76512807	7	9.66E-13	7.04E-07
228	0.146151122	-5.413396965	-1.356235599	-4.967633297	3.146151122	0.011545431	1.808314132	-34.25148894	7	1.11E-12	1.33E-06
229	0.146151122	4.939619409	0.990454441	-14.76512807	2.146151122	-0.012652797	-2.476136103	-34.20967981	7	1.05E-13	8.45E-07
230	0.872057954	-0.0099933	-1.566045976	-39.17740013	4.872057954	6.254190606	1.566045976	-0.062599866	8	4.24E-13	1.08E-06
231	0.947210137	4.78E-58	-5.61E-56	-15.67339915	5.711195532	2.39E-58	-2.04E-56	-23.50269386	8	3.01E-13	1.95E-06
232	0.127942046	0.010322137	1.213053997	-39.18991476	3.127942046	-6.054947849	-2.021756662	9.726524605	8	8.80E-13	1.82E-06
233	0.872057954	-6.054947849	-1.213053997	-9.860085237	3.872057954	0.010322137	2.021756662	-39.1565246	8	8.41E-14	6.30E-07
234	0.127942046	4.128228529	0.591909742	-29.46584526	1.127942046	-0.015139666	-4.143368195	-38.98908316	8	3.19E-13	3.87E-07

235	0.127942046	-0.015139666	-4.143368195	-38.98908316	7.127942046	4.128228529	0.591909742	-29.46584526	8	3.63E-13	3.87E-07
236	0.125959698	-6.085555973	-1.873322501	7.242139855	4.872045079	0.010075496	1.284349307	-39.1872378	8	1.63E-12	1.01E-06
237	0.127945314	0.010269604	1.911781674	-39.16290257	4.879923476	-6.199239023	-1.306720783	-7.429602595	8	2.78E-12	8.45E-07
238	0.127934929	0.010105464	1.482788883	-39.18114674	3.873266524	-6.298669549	-1.684436972	2.431440198	8	2.26E-13	1.33E-06
239	0.127942046	-6.254190606	-1.566045976	-0.062599866	4.127942046	0.0099933	1.566045976	-39.17740013	8	2.46E-13	1.17E-06
240	0.127942046	-0.011545431	-2.712471198	-39.11473341	6.127942046	5.413396965	0.904157066	-19.66175553	8	4.63E-13	5.30E-07
241	0.127942046	5.413396965	2.712471198	19.49473341	6.127942046	-0.011545431	-0.904157066	-39.19824447	8	1.14E-11	2.97E-06
242	0.872057954	0.010322137	1.213053997	-39.18991476	3.872057954	-6.054947849	-2.021756662	9.726524605	8	1.44E-12	2.07E-06
243	0.872057954	6.054947849	2.021756662	9.726524605	5.872057954	-0.010322137	-1.213053997	-39.18991476	8	1.06E-12	2.07E-06
244	0.872057954	0.0099933	1.566045976	-39.17740013	4.872057954	-6.254190606	-1.566045976	-0.062599866	8	5.28E-13	1.08E-06
245	0.127942046	5.413396965	0.904157066	-19.66175553	2.127942046	-0.011545431	-2.712471198	-39.11473341	8	4.16E-13	5.30E-07
246	0.127942046	-5.413396965	-0.904157066	-19.66175553	2.127942046	0.011545431	2.712471198	-39.11473341	8	5.28E-13	5.30E-07
247	0.872045079	-0.010075496	-1.284349307	-39.1872378	4.125959698	6.085555973	1.873322501	7.242139855	8	5.64E-13	1.01E-06
248	0.127942046	0.010322137	2.021756662	-39.1565246	5.127942046	-6.054947849	-1.213053997	-9.860085237	8	3.53E-13	7.47E-07
249	0.872056048	0.009920351	1.655798806	-39.1730411	5.132431293	-6.182145852	-1.453408643	-2.613055596	8	3.41E-12	6.65E-07
250	0.872045079	0.010075496	1.284349307	-39.1872378	4.125959698	-6.085555973	-1.873322501	7.242139855	8	1.43E-12	1.01E-06
251	0.127942046	0.011545431	0.904157066	-39.19824447	2.127942046	-5.413396965	-2.712471198	19.49473341	8	4.44E-12	2.97E-06
252	0.127942046	-4.128228529	-0.591909742	-29.46584526	1.127942046	0.015139666	4.143368195	-38.98908316	8	8.41E-13	3.87E-07
253	0.127942046	-6.054947849	-1.213053997	-9.860085237	3.127942046	0.010322137	2.021756662	-39.1565246	8	2.00E-13	7.47E-07
254	0.125959698	6.085555973	1.873322501	7.242139855	4.872045079	-0.010075496	-1.284349307	-39.1872378	8	4.81E-12	1.01E-06
255	0.872057954	-0.010322137	-1.213053997	-39.18991476	3.872057954	6.054947849	2.021756662	9.726524605	8	2.10E-12	2.07E-06
256	0.873266524	-6.298669549	-1.684436972	2.431440198	5.127934929	0.010105464	1.482788883	-39.18114674	8	6.34E-13	1.33E-06
257	0.127942046	-6.054947849	-2.021756662	9.726524605	5.127942046	0.010322137	1.213053997	-39.18991476	8	6.53E-13	1.82E-06
258	0.127942046	0.015139666	0.591909742	-39.20415474	1.127942046	-4.128228529	-4.143368195	29.17908316	8	1.17E-12	6.21E-06
259	0.127942046	-0.015139666	-0.591909742	-39.20415474	1.127942046	4.128228529	4.143368195	29.17908316	8	9.68E-13	6.21E-06
260	0.127942046	0.015139666	4.143368195	-38.98908316	7.127942046	-4.128228529	-0.591909742	-29.46584526	8	8.60E-13	3.87E-07
261	0.872057954	6.254190606	1.566045976	-0.062599866	4.872057954	-0.0099933	-1.566045976	-39.17740013	8	4.54E-13	1.08E-06
262	0.127942046	-0.0099933	-1.566045976	-39.17740013	4.127942046	6.254190606	1.566045976	-0.062599866	8	1.97E-13	1.17E-06
263	0.127942046	-4.128228529	-4.143368195	29.17908316	7.127942046	0.015139666	0.591909742	-39.20415474	8	3.08E-12	6.21E-06
264	0.127942046	6.254190606	1.566045976	-0.062599866	4.127942046	-0.0099933	-1.566045976	-39.17740013	8	6.25E-13	1.17E-06
265	0.872057954	0.010322137	2.021756662	-39.1565246	5.872057954	-6.054947849	-1.213053997	-9.860085237	8	5.00E-13	6.30E-07
266	0.244657325	-4.11E-30	-2.17E-28	-21.09512906	3.861949257	2.09E-29	3.70E-30	-18.22994526	8	1.91E-11	1.76E-06
267	0.872057954	5.413396965	2.712471198	19.49473341	6.872057954	-0.011545431	-0.904157066	-39.19824447	8	1.94E-12	4.51E-06
268	0.872057954	-6.254190606	-1.566045976	-0.062599866	4.872057954	0.0099933	1.566045976	-39.17740013	8	4.78E-13	1.08E-06
269	0.127945314	-0.010269604	-1.911781674	-39.16290257	4.879923476	6.199239023	1.306720783	-7.429602595	8	8.58E-13	8.45E-07
270	0.879923476	-6.199239023	-1.306720783	-7.429602595	4.127945314	0.010269604	1.911781674	-39.16290257	8	2.24E-12	8.45E-07
271	0.711195532	-7.28E-43	2.10E-40	-23.50269386	3.947210137	1.88E-42	-2.73E-41	-15.67339915	8	4.09E-13	1.95E-06
272	0.127942046	0.0099933	1.566045976	-39.17740013	4.127942046	-6.254190606	-1.566045976	-0.062599866	8	1.14E-13	1.17E-06
273	0.127942046	6.054947849	1.213053997	-9.860085237	3.127942046	-0.010322137	-2.021756662	-39.1565246	8	2.58E-13	7.47E-07
274	0.127942046	-0.010322137	-1.213053997	-39.18991476	3.127942046	6.054947849	2.021756662	9.726524605	8	7.43E-13	1.82E-06
275	0.132431293	6.182145852	1.453408643	-2.613055596	3.872056048	-0.009920351	-1.655798806	-39.1730411	8	3.71E-12	6.65E-07
276	0.879923476	6.199239023	1.306720783	-7.429602595	4.127945314	-0.010269604	-1.911781674	-39.16290257	8	1.34E-12	8.45E-07
277	0.872057954	6.054947849	1.213053997	-9.860085237	3.872057954	-0.010322137	-2.021756662	-39.1565246	8	9.14E-14	6.30E-07
278	0.127942046	-0.010322137	-2.021756662	-39.1565246	5.127942046	6.054947849	1.213053997	-9.860085237	8	9.18E-14	7.47E-07
279	0.872057954	-6.054947849	-2.021756662	9.726524605	5.872057954	0.010322137	1.213053997	-39.18991476	8	1.46E-12	2.07E-06
280	0.861949257	2.87E-42	1.81E-40	-18.22994526	5.244657325	-5.61E-43	8.04E-41	-21.09512906	8	5.76E-10	1.76E-06
281	0.127942046	-0.011545431	-0.904157066	-39.19824447	2.127942046	5.413396965	2.712471198	19.49473341	8	6.23E-12	2.97E-06

282	0.127942046	6.054947849	2.021756662	9.726524605	5.127942046	-0.010322137	-1.213053997	-39.18991476	8	1.01E-12	1.82E-06
283	0.872056048	-0.009920351	-1.655798806	-39.1730411	5.132431293	6.182145852	1.453408643	-2.613055596	8	7.28E-13	6.65E-07
284	0.873266524	6.298669549	1.684436972	2.431440198	5.127934929	-0.010105464	-1.482788883	-39.18114674	8	7.99E-13	1.33E-06
285	0.127934929	-0.010105464	-1.482788883	-39.18114674	3.873266524	6.298669549	1.684436972	2.431440198	8	4.39E-13	1.33E-06
286	0.132431293	-6.182145852	-1.453408643	-2.613055596	3.872056048	0.009920351	1.655798806	-39.1730411	8	9.19E-13	6.65E-07
287	0.872057954	-0.010322137	-2.021756662	-39.1565246	5.872057954	6.054947849	1.213053997	-9.860085237	8	4.98E-13	6.30E-07
288	0.872057954	-5.413396965	-2.712471198	19.49473341	6.872057954	0.011545431	0.904157066	-39.19824447	8	7.43E-12	4.51E-06
289	0.728326301	-6.01E-51	6.41E-50	-23.0858311	4.088448677	-4.54E-50	-6.94E-49	-16.02953771	8	5.00E-13	1.95E-06
290	0.127942046	0.011545431	2.712471198	-39.11473341	6.127942046	-5.413396965	-0.904157066	-19.66175553	8	1.01E-12	5.30E-07
291	0.872057954	-0.011545431	-0.904157066	-39.19824447	2.872057954	5.413396965	2.712471198	19.49473341	8	3.33E-12	4.51E-06
292	0.127942046	4.128228529	4.143368195	29.17908316	7.127942046	-0.015139666	-0.591909742	-39.20415474	8	2.53E-12	6.21E-06
293	0.127942046	-5.413396965	-2.712471198	19.49473341	6.127942046	0.011545431	0.904157066	-39.19824447	8	1.79E-11	2.97E-06
294	0.107442818	-4.415291568	-0.553680865	-34.36635019	1.107442818	0.014155351	4.429446918	-43.8941985	9	4.11E-13	2.63E-07
295	0.896526544	-7.067405388	-1.477601462	-2.888192505	5.107441495	0.008953683	1.68048017	-44.08555526	9	2.63E-12	7.47E-07
296	0.107442818	0.014155351	4.429446918	-43.8941985	8.107442818	-4.415291568	-0.553680865	-34.36635019	9	2.81E-13	2.63E-07
297	0.107442818	-0.01068573	-2.929803748	-44.01977163	7.107442818	5.848921765	0.837086785	-24.56077953	9	1.61E-12	3.50E-07
298	0.107442818	0.00893542	1.750892629	-44.08242016	5.107442818	-6.994635098	-1.400714104	-4.955063873	9	1.05E-12	6.84E-07
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301	0.281148395	1.50E-53	1.67E-51	-25.56309517	4.041334155	-6.00E-53	-4.18E-51	-18.63628387	9	1.88E-12	1.12E-06
302	0.892557182	-0.009420098	-1.10736173	-44.10327417	3.892557182	6.634750279	2.214723459	14.63154835	9	2.69E-13	1.85E-06
303	0.107442818	6.634750279	2.214723459	14.63154835	6.107442818	-0.009420098	-1.10736173	-44.10327417	9	1.28E-12	1.48E-06
304	0.107442818	4.415291568	0.553680865	-34.36635019	1.107442818	-0.014155351	-4.429446918	-43.8941985	9	2.89E-13	2.63E-07
305	0.892557182	6.994635098	1.750892629	4.842420158	5.892557182	-0.00893542	-1.400714104	-44.09493613	9	4.64E-13	1.04E-06
306	0.107442818	-0.014155351	-4.429446918	-43.8941985	8.107442818	4.415291568	0.553680865	-34.36635019	9	2.27E-13	2.63E-07
307	0.108529178	-6.979439264	-1.657570761	2.726892153	4.892552165	0.008840964	1.460753898	-44.09267653	9	1.27E-12	5.49E-07
308	0.892557182	6.634750279	2.214723459	14.63154835	6.892557182	-0.009420098	-1.10736173	-44.10327417	9	7.59E-13	1.85E-06
309	0.107442818	0.01068573	2.929803748	-44.01977163	7.107442818	-5.848921765	-0.837086785	-24.56077953	9	7.42E-13	3.50E-07
310	0.107442818	0.009420098	1.10736173	-44.10327417	3.107442818	-6.634750279	-2.214723459	14.63154835	9	2.28E-12	1.48E-06
311	0.107442818	5.848921765	2.929803748	24.39977163	7.107442818	-0.01068573	-0.837086785	-44.10922047	9	1.55E-12	2.30E-06
312	0.107442818	-0.00893542	-1.400714104	-44.09493613	4.107442818	6.994635098	1.750892629	4.842420158	9	1.10E-12	1.06E-06
313	0.892552165	0.008840964	1.460753898	-44.09267653	5.108529178	-6.979439264	-1.657570761	2.726892153	9	3.40E-12	5.49E-07
314	0.107442818	4.415291568	4.429446918	34.0841985	8.107442818	-0.014155351	-0.553680865	-44.11364981	9	1.87E-12	4.79E-06
315	0.107442818	0.014155351	0.553680865	-44.11364981	1.107442818	-4.415291568	-4.429446918	34.0841985	9	6.47E-12	4.79E-06
316	0.892557182	-6.994635098	-1.400714104	-4.955063873	4.892557182	0.00893542	1.750892629	-44.08242016	9	4.05E-13	5.85E-07
317	0.892557182	-0.01068573	-0.837086785	-44.10922047	2.892557182	5.848921765	2.929803748	24.39977163	9	3.42E-13	4.06E-06
318	0.892557182	0.00893542	1.750892629	-44.08242016	5.892557182	-6.994635098	-1.400714104	-4.955063873	9	2.77E-13	5.85E-07
319	0.892557182	-0.00893542	-1.750892629	-44.08242016	5.892557182	6.994635098	1.400714104	-4.955063873	9	3.81E-13	5.85E-07
320	0.892557182	0.009420098	2.214723459	-44.06154835	6.892557182	-6.634750279	-1.10736173	-14.75672583	9	1.00E-13	3.68E-07
321	0.107442818	6.994635098	1.400714104	-4.955063873	4.107442818	-0.00893542	-1.750892629	-44.08242016	9	5.59E-13	6.84E-07
322	0.872436687	1.35E-43	2.15E-42	-20.08512409	5.763824101	2.24E-44	8.61E-42	-24.04905449	9	5.92E-13	1.58E-06
323	0.107442818	0.009420098	2.214723459	-44.06154835	6.107442818	-6.634750279	-1.10736173	-14.75672583	9	1.85E-13	4.73E-07
324	0.892543982	0.00920679	1.158311623	-44.10175834	4.103133807	-6.696734307	-2.088694435	12.57113946	9	1.37E-12	8.19E-07
325	0.892557182	-6.634750279	-1.10736173	-14.75672583	3.892557182	0.009420098	2.214723459	-44.06154835	9	2.33E-13	3.68E-07
326	0.892552165	-0.008840964	-1.460753898	-44.09267653	5.108529178	6.979439264	1.657570761	2.726892153	9	2.39E-12	5.49E-07
327	0.107442818	0.00893542	1.400714104	-44.09493613	4.107442818	-6.994635098	-1.750892629	4.842420158	9	1.51E-12	1.06E-06
328	0.107442818	-0.009420098	-1.10736173	-44.10327417	3.107442818	6.634750279	2.214723459	14.63154835	9	9.46E-13	1.48E-06

329	0.107441495	-0.008953683	-1.68048017	-44.08555526	4.896526544	7.067405388	1.477601462	-2.888192505	9	1.91E-12	7.47E-07
330	0.107442818	-0.009420098	-2.214723459	-44.06154835	6.107442818	6.634750279	1.10736173	-14.75672583	9	7.65E-13	4.73E-07
331	0.107442818	5.848921765	0.837086785	-24.56077953	2.107442818	-0.01068573	-2.929803748	-44.01977163	9	1.19E-12	3.50E-07
332	0.896526544	7.067405388	1.477601462	-2.888192505	5.107441495	-0.008953683	-1.68048017	-44.08555526	9	1.89E-12	7.47E-07
333	0.892543982	-0.00920679	-1.158311623	-44.10175834	4.103133807	6.696734307	2.088694435	12.57113946	9	1.03E-12	8.19E-07
334	0.892557182	0.00893542	1.400714104	-44.09493613	4.892557182	-6.994635098	-1.750892629	4.842420158	9	3.37E-13	1.04E-06
335	0.892557182	-5.848921765	-2.929803748	24.39977163	7.892557182	0.01068573	0.837086785	-44.10922047	9	8.40E-13	4.06E-06
336	0.107442818	-0.01068573	-0.837086785	-44.10922047	2.107442818	5.848921765	2.929803748	24.39977163	9	6.98E-13	2.30E-06
337	0.892557182	0.009420098	1.10736173	-44.10327417	3.892557182	-6.634750279	-2.214723459	14.63154835	9	4.16E-13	1.85E-06
338	0.107442818	-6.634750279	-1.10736173	-14.75672583	3.107442818	0.009420098	2.214723459	-44.06154835	9	1.64E-13	4.73E-07
339	0.107442818	-5.848921765	-2.929803748	24.39977163	7.107442818	0.01068573	0.837086785	-44.10922047	9	2.02E-12	2.30E-06
340	0.892557182	-0.009420098	-2.214723459	-44.06154835	6.892557182	6.634750279	1.10736173	-14.75672583	9	1.17E-13	3.68E-07
341	0.107442818	-6.634750279	-2.214723459	14.63154835	6.107442818	0.009420098	1.10736173	-44.10327417	9	1.12E-12	1.48E-06
342	0.892557182	-0.00893542	-1.400714104	-44.09493613	4.892557182	6.994635098	1.750892629	4.842420158	9	4.67E-13	1.04E-06
343	0.103133807	6.696734307	2.088694435	12.57113946	5.892543982	-0.00920679	-1.158311623	-44.10175834	9	6.21E-13	8.19E-07
344	0.892557182	6.994635098	1.400714104	-4.955063873	4.892557182	-0.00893542	-1.750892629	-44.08242016	9	9.27E-14	5.85E-07
345	0.107442818	-5.848921765	-0.837086785	-24.56077953	2.107442818	0.01068573	2.929803748	-44.01977163	9	3.41E-13	3.50E-07
346	0.798272974	-3.26E-44	-3.50E-42	-23.10019473	5.169284826	9.53E-44	2.41E-43	-21.02149198	9	1.49E-12	1.39E-06
347	0.103133807	-6.696734307	-2.088694435	12.57113946	5.892543982	0.00920679	1.158311623	-44.10175834	9	2.03E-12	8.19E-07
348	0.892557182	6.634750279	1.10736173	-14.75672583	3.892557182	-0.009420098	-2.214723459	-44.06154835	9	1.27E-13	3.68E-07
349	0.107448558	-0.009334268	-2.119624457	-44.06689173	5.902359461	6.784250966	1.172336443	-12.74627662	9	2.85E-11	5.15E-07
350	0.107442818	-0.014155351	-0.553680865	-44.11364981	1.107442818	4.415291568	4.429446918	34.0841985	9	5.29E-12	4.79E-06
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352	0.041334155	5.13E-49	3.56E-47	-18.63628387	5.281148395	-3.26E-49	-4.93E-47	-25.56309517	9	4.16E-12	1.12E-06
353	0.107442818	6.994635098	1.750892629	4.842420158	5.107442818	-0.00893542	-1.400714104	-44.09493613	9	2.19E-12	1.06E-06
354	0.287122085	4.00E-34	-1.07E-34	-25.73544815	4.003697555	5.74E-35	-2.13E-32	-18.48533123	9	2.32E-12	7.70E-07
355	0.107442818	6.634750279	1.10736173	-14.75672583	3.107442818	-0.009420098	-2.214723459	-44.06154835	9	4.23E-13	4.73E-07
356	0.107442818	-0.00893542	-1.750892629	-44.08242016	5.107442818	6.994635098	1.400714104	-4.955063873	9	2.20E-12	6.84E-07
357	0.107442818	-4.415291568	-4.429446918	34.0841985	8.107442818	0.014155351	0.553680865	-44.11364981	9	5.25E-12	4.79E-06
358	0.107442818	-6.994635098	-1.750892629	4.842420158	5.107442818	0.00893542	1.400714104	-44.09493613	9	2.48E-12	1.06E-06
359	0.892557182	-6.994635098	-1.750892629	4.842420158	5.892557182	0.00893542	1.400714104	-44.09493613	9	4.24E-13	1.04E-06
360	0.108529178	6.979439264	1.657570761	2.726892153	4.892552165	-0.008840964	-1.460753898	-44.09267653	9	8.74E-13	5.49E-07
361	0.082896517	7.167804683	1.025217747	-19.65575773	3.082896517	-0.008719546	-2.392174743	-48.96656529	10	1.02E-12	3.17E-07
362	0.081728651	-7.679943367	-1.846025103	8.134875233	5.917097422	0.008070426	1.317485509	-49.00711279	10	6.38E-13	4.28E-07
363	0.917103483	0.008155147	1.278671185	-49.008289	4.917103483	-7.663871965	-1.918006778	9.747433494	10	1.73E-12	9.68E-07
364	0.082896517	-0.007990039	-1.566045976	-48.99994893	5.082896517	7.822239843	1.566045976	-0.050051073	10	1.74E-12	6.14E-07
365	0.085838259	7.785371479	1.507783011	-1.703721347	4.917101851	-0.007961465	-1.61310448	-48.99820079	10	7.14E-14	3.02E-07
366	0.821395625	-3.26E-54	5.45E-53	-24.525	5.821395625	-2.61E-54	-6.13E-52	-24.525	10	6.21E-13	1.24E-06
367	0.082896517	0.008155147	1.278671185	-49.008289	4.082896517	-7.663871965	-1.918006778	9.747433494	10	3.34E-12	8.72E-07
368	0.082896517	-0.013341027	-4.698137929	-48.79928807	9.082896517	4.684796902	0.522015325	-39.26785688	10	6.25E-13	1.89E-07
369	0.082896517	7.822239843	1.566045976	-0.050051073	5.082896517	-0.007990039	-1.566045976	-48.99994893	10	1.81E-13	6.14E-07
370	0.082896517	-7.822239843	-1.566045976	-0.050051073	5.082896517	0.007990039	1.566045976	-48.99994893	10	3.20E-13	6.14E-07
371	0.178604375	-3.28E-47	-2.73E-44	-24.525	5.178604375	-5.25E-46	-8.43E-46	-24.525	10	4.03E-13	1.27E-06
372	0.082893554	0.008026553	1.521536968	-49.0015403	4.918692883	-7.849495675	-1.624865238	1.559057952	10	1.59E-12	6.65E-07
373	0.082896517	7.167804683	2.392174743	19.53656529	7.082896517	-0.008719546	-1.025217747	-49.01424227	10	8.75E-13	1.14E-06
374	0.082896517	0.008155147	1.918006778	-48.98743349	6.082896517	-7.663871965	-1.278671185	-9.851711004	10	5.45E-13	4.28E-07
375	0.008490662	-2.41E-86	-5.15E-84	-20.73837276	5.730637064	4.02E-86	4.12E-84	-28.24991468	10	1.25E-12	4.73E-07



376	0.917103483	7.822239843	1.566045976	-0.050051073	5.917103483	-0.007990039	-1.566045976	-48.99994893	10	9.86E-12	5.60E-07
377	0.082896517	0.013341027	4.698137929	-48.79928807	9.082896517	-4.684796902	-0.522015325	-39.26785688	10	2.05E-13	1.89E-07
378	0.917103483	0.008719546	2.392174743	-48.96656529	7.917103483	-7.167804683	-1.025217747	-19.65575773	10	2.04E-13	2.33E-07
379	0.082896517	0.008719546	1.025217747	-49.01424227	3.082896517	-7.167804683	-2.392174743	19.53656529	10	9.39E-13	1.14E-06
380	0.918692883	7.849495675	1.624865238	1.559057952	6.082893554	-0.008026553	-1.521536968	-49.0015403	10	2.77E-12	6.65E-07
381	0.732754109	3.74E-47	-7.00E-46	-28.19248759	5.026487296	1.07E-47	1.36E-45	-20.79064848	10	5.07E-12	5.00E-07
382	0.026487296	0	-4.53E-71	-20.79064848	5.732754109	-2.12E-73	-3.85E-71	-28.19248759	10	1.57E-12	5.00E-07
383	0.917097422	0.008070426	1.317485509	-49.00711279	5.081728651	-7.679943367	-1.846025103	8.134875233	10	1.52E-12	4.28E-07
384	0.082893554	-0.008026553	-1.521536968	-49.0015403	4.918692883	7.849495675	1.624865238	1.559057952	10	1.48E-12	6.65E-07
385	0.917103483	-7.663871965	-1.278671185	-9.851711004	4.917103483	0.008155147	1.918006778	-48.98743349	10	2.50E-13	3.33E-07
386	0.917103483	7.663871965	1.918006778	9.747433494	6.917103483	-0.008155147	-1.278671185	-49.008289	10	6.95E-13	9.68E-07
387	0.082896517	-4.684796902	-0.522015325	-39.26785688	1.082896517	0.013341027	4.698137929	-48.79928807	10	3.35E-13	1.89E-07
388	0.917103483	0.007990039	1.566045976	-48.99994893	5.917103483	-7.822239843	-1.566045976	-0.050051073	10	2.50E-12	5.60E-07
389	0.917103483	-0.007990039	-1.566045976	-48.99994893	5.917103483	7.822239843	1.566045976	-0.050051073	10	4.31E-12	5.60E-07
390	0.082896517	0.007990039	1.566045976	-48.99994893	5.082896517	-7.822239843	-1.566045976	-0.050051073	10	9.40E-13	6.14E-07
391	0.917101851	0.007961465	1.61310448	-48.99820079	6.085838259	-7.785371479	-1.507783011	-1.703721347	10	3.21E-13	3.02E-07
392	0.085838259	-7.785371479	-1.507783011	-1.703721347	4.917101851	0.007961465	1.61310448	-48.99820079	10	1.36E-13	3.02E-07
393	0.917103483	-0.008155147	-1.918006778	-48.98743349	6.917103483	7.663871965	1.278671185	-9.851711004	10	2.70E-13	3.33E-07
394	0.082896517	0.008719546	2.392174743	-48.96656529	7.082896517	-7.167804683	-1.025217747	-19.65575773	10	4.47E-13	3.17E-07
395	0.082896517	7.663871965	1.918006778	9.747433494	6.082896517	-0.008155147	-1.278671185	-49.008289	10	9.18E-13	8.72E-07
396	0.082897725	0.008138248	1.863025731	-48.98984022	5.922929386	-7.741989808	-1.327069527	-8.283563582	10	3.15E-13	4.50E-07
397	0.082896517	6.254190606	0.783022988	-29.46129993	2.082896517	-0.0099933	-3.132091953	-48.92480027	10	3.74E-13	2.42E-07
398	0.082896517	-7.663871965	-1.918006778	9.747433494	6.082896517	0.008155147	1.278671185	-49.008289	10	3.66E-12	8.72E-07
399	0.082896517	-0.008719546	-2.392174743	-48.96656529	7.082896517	7.167804683	1.025217747	-19.65575773	10	2.68E-13	3.17E-07
400	0.917103483	-0.008719546	-1.025217747	-49.01424227	3.917103483	7.167804683	2.392174743	19.53656529	10	7.97E-13	1.69E-06
401	0.081728651	7.679943367	1.846025103	8.134875233	5.917097422	-0.008070426	-1.317485509	-49.00711279	10	5.61E-13	4.28E-07
402	0.917103483	-6.254190606	-3.132091953	29.30480027	8.917103483	0.0099933	0.783022988	-49.01870007	10	1.86E-12	3.70E-06
403	0.082896517	4.684796902	0.522015325	-39.26785688	1.082896517	-0.013341027	-4.698137929	-48.79928807	10	3.09E-13	1.89E-07
404	0.917103483	-7.663871965	-1.918006778	9.747433494	6.917103483	0.008155147	1.278671185	-49.008289	10	1.25E-12	9.68E-07
405	0.917101851	-0.007961465	-1.61310448	-48.99820079	6.085838259	7.785371479	1.507783011	-1.703721347	10	3.50E-13	3.02E-07
406	0.917103483	-0.008155147	-1.278671185	-49.008289	4.917103483	7.663871965	1.918006778	9.747433494	10	1.84E-12	9.68E-07
407	0.082896517	0.0099933	3.132091953	-48.92480027	8.082896517	-6.254190606	-0.783022988	-29.46129993	10	7.10E-13	2.42E-07
408	0.082896517	-0.0099933	-3.132091953	-48.92480027	8.082896517	6.254190606	0.783022988	-29.46129993	10	9.25E-14	2.42E-07
409	0.082896517	0.0099933	0.783022988	-49.01870007	2.082896517	-6.254190606	-3.132091953	29.30480027	10	1.53E-12	1.74E-06
410	0.082897725	-0.008138248	-1.863025731	-48.98984022	5.922929386	7.741989808	1.327069527	-8.283563582	10	1.36E-13	4.50E-07
411	0.917103483	0.008155147	1.918006778	-48.98743349	6.917103483	-7.663871965	-1.278671185	-9.851711004	10	1.15E-13	3.33E-07
412	0.917103483	7.663871965	1.278671185	-9.851711004	4.917103483	-0.008155147	-1.918006778	-48.98743349	10	1.10E-13	3.33E-07
413	0.917097422	-0.008070426	-1.317485509	-49.00711279	5.081728651	7.679943367	1.846025103	8.134875233	10	4.94E-13	4.28E-07
414	0.082896517	-7.167804683	-1.025217747	-19.65575773	3.082896517	0.008719546	2.392174743	-48.96656529	10	1.38E-12	3.17E-07
415	0.917103483	7.167804683	1.025217747	-19.65575773	3.917103483	-0.008719546	-2.392174743	-48.96656529	10	2.88E-13	2.33E-07
416	0.082896517	-0.008155147	-1.278671185	-49.008289	4.082896517	7.663871965	1.918006778	9.747433494	10	3.47E-12	8.72E-07
417	0.875539232	1.34E-50	1.24E-48	-23.17024672	6.225987557	-3.61E-50	-7.03E-49	-25.9274621	10	1.82E-11	9.35E-07
418	0.922929386	-7.741989808	-1.327069527	-8.283563582	5.082897725	0.008138248	1.863025731	-48.98984022	10	5.98E-13	4.50E-07
419	0.082896517	-6.254190606	-0.783022988	-29.46129993	2.082896517	0.0099933	3.132091953	-48.92480027	10	9.29E-14	2.42E-07
420	0.082896517	-0.008719546	-1.025217747	-49.01424227	3.082896517	7.167804683	2.392174743	19.53656529	10	3.22E-13	1.14E-06
421	0.917103483	-7.822239843	-1.566045976	-0.050051073	5.917103483	0.007990039	1.566045976	-48.99994893	10	5.03E-12	5.60E-07
422	0.082896517	7.663871965	1.278671185	-9.851711004	4.082896517	-0.008155147	-1.918006778	-48.98743349	10	5.83E-13	4.28E-07

423	0.917103483	0.008719546	1.025217747	-49.01424227	3.917103483	-7.167804683	-2.392174743	19.53656529	10	2.74E-13	1.69E-06
424	0.082896517	-6.254190606	-3.132091953	29.30480027	8.082896517	0.0099933	0.783022988	-49.01870007	10	2.52E-13	1.74E-06
425	0.082896517	-0.008155147	-1.918006778	-48.98743349	6.082896517	7.663871965	1.278671185	-9.851711004	10	1.09E-12	4.28E-07
426	0.918692883	-7.849495675	-1.624865238	1.559057952	6.082893554	0.008026553	1.521536968	-49.0015403	10	1.27E-12	6.65E-07
427	0.917103483	-0.008719546	-2.392174743	-48.96656529	7.917103483	7.167804683	1.025217747	-19.65575773	10	4.44E-13	2.33E-07
428	0.917103483	7.167804683	2.392174743	19.53656529	7.917103483	-0.008719546	-1.025217747	-49.01424227	10	2.31E-13	1.69E-06
429	0.082896517	-0.0099933	-0.783022988	-49.01870007	2.082896517	6.254190606	3.132091953	29.30480027	10	1.54E-12	1.74E-06
430	0.917103483	-7.167804683	-2.392174743	19.53656529	7.917103483	0.008719546	1.025217747	-49.01424227	10	7.97E-13	1.69E-06
431	0.730637064	1.24E-44	3.49E-44	-28.24991468	5.008490662	4.61E-44	1.02E-42	-20.73837276	10	3.53E-13	4.73E-07