

Growth of $f(x) = x^4$ and $g(x) = 1.1^x$

x	$f(x) = x^4$	$g(x) = 1.1^x$	$f(x)/g(x)$
5	625	1.6	388.1
10	10000	2.6	3855.4
15	50625	4.2	12119.2
20	160000	6.7	23783.0
25	390625	10.8	36053.1
30	810000	17.4	46419.9
35	1500625	28.1	53398.4
40	2560000	45.3	56563.0
45	4100625	72.9	56257.3
50	6250000	117.4	53240.9
55	9.15E+06	1.89E+02	48400.9
60	1.30E+07	3.04E+02	42564.1
65	1.79E+07	4.90E+02	36402.3
70	2.40E+07	7.90E+02	30402.1
75	3.16E+07	1.27E+03	24876.8
80	4.10E+07	2.05E+03	19996.1
85	5.22E+07	3.30E+03	15823.3
90	6.56E+07	5.31E+03	12348.9
95	8.15E+07	8.56E+03	9519.0
100	1.00E+08	1.38E+04	7256.6
105	1.22E+08	2.22E+04	5476.8
110	1.46E+08	3.57E+04	4096.1
115	1.75E+08	5.76E+04	3038.3
120	2.07E+08	9.27E+04	2236.7
125	2.44E+08	1.49E+05	1635.1
130	2.86E+08	2.40E+05	1187.7
135	3.32E+08	3.87E+05	857.7
140	3.84E+08	6.24E+05	615.9
145	4.42E+08	1.00E+06	440.1
150	5.06E+08	1.62E+06	312.9
155	5.77E+08	2.61E+06	221.5
160	6.55E+08	4.20E+06	156.2
165	7.41E+08	6.76E+06	109.7
170	8.35E+08	1.09E+07	76.7
175	9.38E+08	1.75E+07	53.5
180	1.05E+09	2.82E+07	37.2
185	1.17E+09	4.55E+07	25.8
190	1.30E+09	7.32E+07	17.8
195	1.45E+09	1.18E+08	12.3
200	1.60E+09	1.90E+08	8.4
205	1.77E+09	3.06E+08	5.8
210	1.94E+09	4.93E+08	3.9
215	2.14E+09	7.93E+08	2.7
220	2.34E+09	1.28E+09	1.8
225	2.56E+09	2.06E+09	1.2
230	2.80E+09	3.31E+09	8.44E-01
235	3.05E+09	5.34E+09	5.71E-01
240	3.32E+09	8.59E+09	3.86E-01

x	$f(x) = x^4$	$g(x) = 1.1^x$	$f(x)/g(x)$
245	3.60E+09	1.38E+10	2.60E-01
250	3.91E+09	2.23E+10	1.75E-01
255	4.23E+09	3.59E+10	1.18E-01
260	4.57E+09	5.78E+10	7.90E-02
265	4.93E+09	9.31E+10	5.30E-02
270	5.31E+09	1.50E+11	3.54E-02
275	5.72E+09	2.42E+11	2.37E-02
280	6.15E+09	3.89E+11	1.58E-02
285	6.60E+09	6.26E+11	1.05E-02
290	7.07E+09	1.01E+12	7.01E-03
295	7.57E+09	1.62E+12	4.66E-03
300	8.10E+09	2.62E+12	3.10E-03
305	8.65E+09	4.21E+12	2.05E-03
310	9.24E+09	6.79E+12	1.36E-03
315	9.85E+09	1.09E+13	9.01E-04
320	1.05E+10	1.76E+13	5.96E-04
325	1.12E+10	2.84E+13	3.93E-04
330	1.19E+10	4.57E+13	2.60E-04
335	1.26E+10	7.35E+13	1.71E-04
340	1.34E+10	1.18E+14	1.13E-04
345	1.42E+10	1.91E+14	7.43E-05
350	1.50E+10	3.07E+14	4.88E-05
355	1.59E+10	4.95E+14	3.21E-05
360	1.68E+10	7.97E+14	2.11E-05
365	1.77E+10	1.28E+15	1.38E-05
370	1.87E+10	2.07E+15	9.07E-06
375	1.98E+10	3.33E+15	5.94E-06
380	2.09E+10	5.36E+15	3.89E-06
385	2.20E+10	8.63E+15	2.54E-06
390	2.31E+10	1.39E+16	1.66E-06
395	2.43E+10	2.24E+16	1.09E-06
400	2.56E+10	3.61E+16	7.10E-07
405	2.69E+10	5.81E+16	4.63E-07
410	2.83E+10	9.35E+16	3.02E-07
415	2.97E+10	1.51E+17	1.97E-07
420	3.11E+10	2.43E+17	1.28E-07
425	3.26E+10	3.91E+17	8.35E-08
430	3.42E+10	6.29E+17	5.43E-08
435	3.58E+10	1.01E+18	3.53E-08
440	3.75E+10	1.63E+18	2.30E-08
445	3.92E+10	2.63E+18	1.49E-08
450	4.10E+10	4.23E+18	9.69E-09
455	4.29E+10	6.82E+18	6.29E-09
460	4.48E+10	1.10E+19	4.08E-09
465	4.68E+10	1.77E+19	2.64E-09
470	4.88E+10	2.85E+19	1.71E-09
475	5.09E+10	4.59E+19	1.11E-09
480	5.31E+10	7.39E+19	7.19E-10