data	log	sqrt	linear	nlogn
1	0	1	1	0
2	0.30103	1.414214	2	0.60206
3	0.477121	1.732051	3	1.431364
4	0.60206	2	4	2.40824
5	0.69897	2.236068	5	3.49485
6	0.778151	2.44949	6	4.668908
7	0.845098	2.645751	7	5.915686
8	0.90309	2.828427	8	7.22472
9	0.954243	3	9	8.588183
10	1	3.162278	10	10
11	1.041393	3.316625	11	11.45532
12	1.079181	3.464102	12	12.95017
13	1.113943	3.605551	13	14.48126
14	1.146128	3.741657	14	16.04579
15	1.176091	3.872983	15	17.64137
16	1.20412	4	16	19.26592
17	1.230449	4.123106	17	20.91763
18	1.255273	4.242641	18	22.59491
19	1.278754	4.358899	19	24.29632
20	1.30103	4.472136	20	26.0206
21	1.322219	4.582576	21	27.76661
22	1.342423	4.690416	22	29.5333
23	1.361728	4.795832	23	31.31974
24	1.380211	4.898979	24	33.12507
25	1.39794	5	25	34.9485
26	1.414973	5.09902	26	36.78931
27	1.431364	5.196152	27	38.64682
28	1.447158	5.291503	28	40.52042
29	1.462398	5.385165	29	42.40954
30	1.477121	5.477226	30	44.31364
31	1.491362	5.567764	31	46.23221
32	1.50515	5.656854	32	48.1648
33	1.518514	5.744563	33	50.11096
34	1.531479	5.830952	34	52.07028
35	1.544068	5.91608	35	54.04238
36	1.556303	6	36	56.02689
37	1.568202	6.082763	37	58.02346
38	1.579784	6.164414	38	60.03178
39	1.591065	6.244998	39	62.05152
40	1.60206	6.324555	40	64.0824
41	1.612784	6.403124	41	66.12414
42	1.623249	6.480741	42	68.17647
43	1.633468	6.557439	43	70.23914
44	1.643453	6.63325	44	72.31192
45	1.653213	6.708204	45	74.39456
46	1.662758	6.78233	46	76.48686
47	1.672098	6.855655	47	78.5886
48	1.681241	6.928203	48	80.69958
49	1.690196	7	49	82.81961
50	1.69897	7.071068	50	84.9485
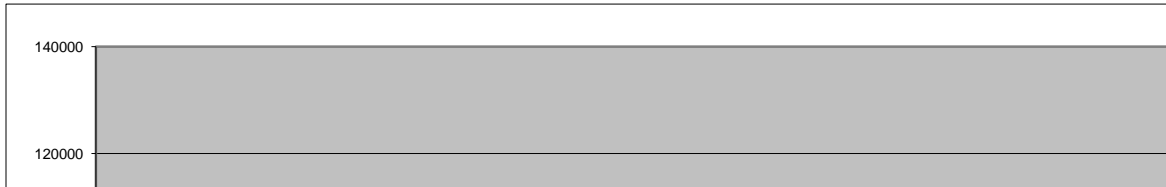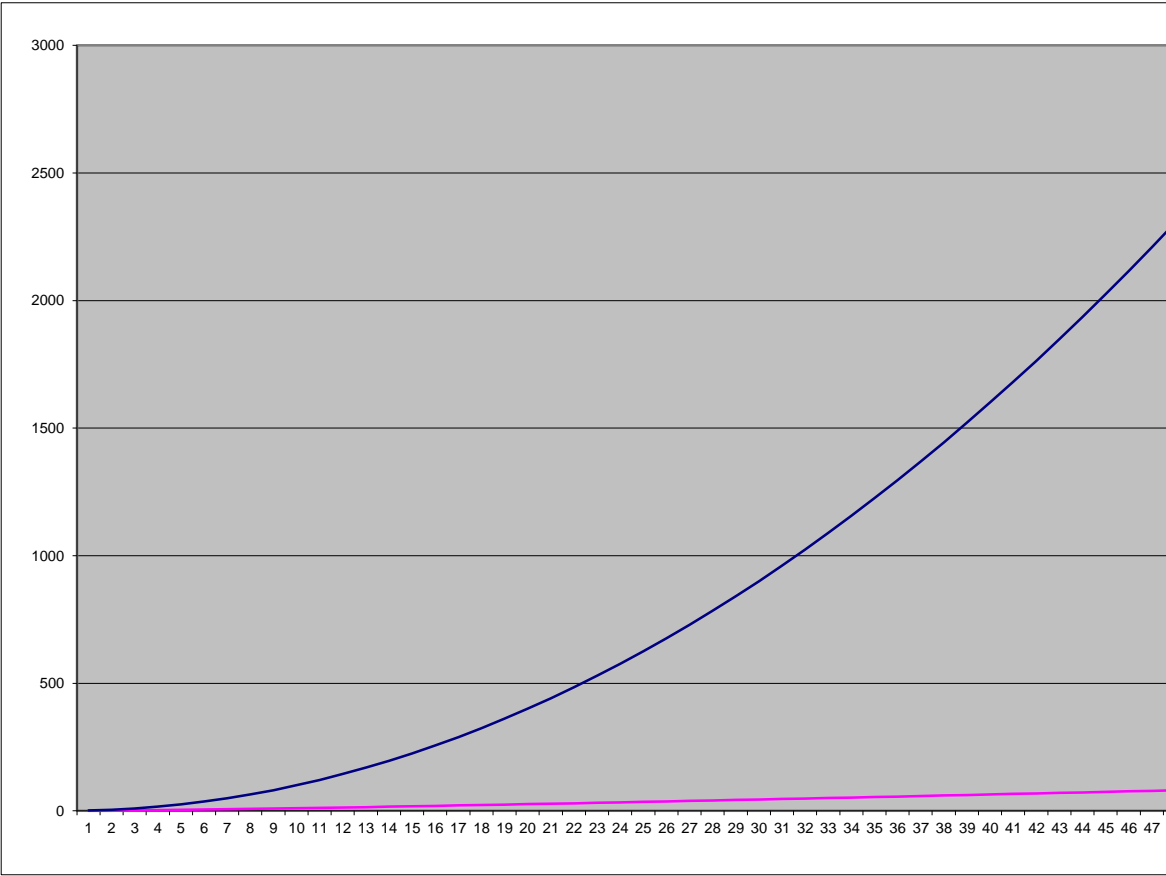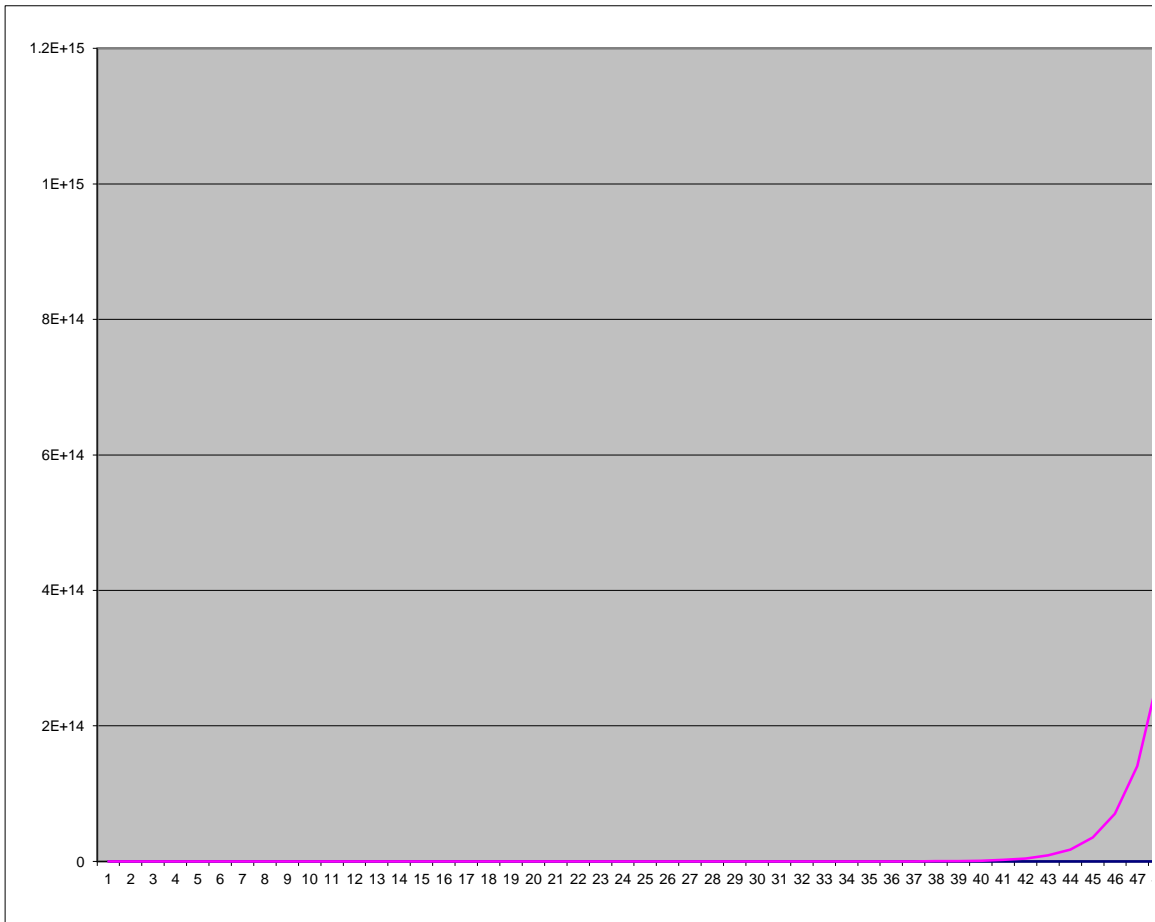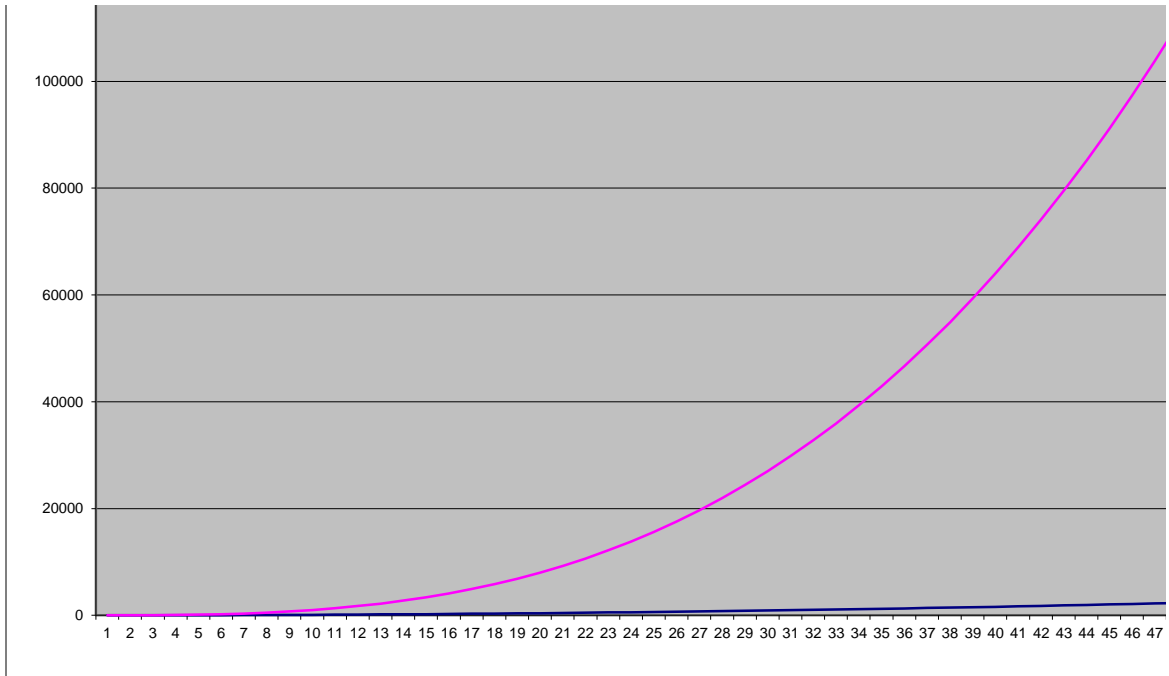
quadratic	cubic	"1.5^n"	"1.4^n"	"1.1^n"	"1.01^n"	"1.001^n"	2^sqrt(n)
1	1	1.5	1.4	1.1	1.01	1.001	2
4	8	2.25	1.96	1.21	1.0201	1.002001	2.665144
9	27	3.375	2.744	1.331	1.030301	1.003003	3.321997
16	64	5.0625	3.8416	1.4641	1.040604	1.004006	4
25	125	7.59375	5.37824	1.61051	1.05101	1.00501	4.711113
36	216	11.39063	7.529536	1.771561	1.06152	1.006015	5.462229
49	343	17.08594	10.54135	1.948717	1.072135	1.007021	6.258215
64	512	25.62891	14.75789	2.143589	1.082857	1.008028	7.102993
81	729	38.44336	20.66105	2.357948	1.093685	1.009036	8
100	1000	57.66504	28.92547	2.593742	1.104622	1.010045	8.95242
121	1331	86.49756	40.49565	2.853117	1.115668	1.011055	9.963308
144	1728	129.7463	56.69391	3.138428	1.126825	1.012066	11.03566
169	2197	194.6195	79.37148	3.452271	1.138093	1.013078	12.17248
196	2744	291.9293	111.1201	3.797498	1.149474	1.014091	13.37677
225	3375	437.8939	155.5681	4.177248	1.160969	1.015105	14.65157
256	4096	656.8408	217.7953	4.594973	1.172579	1.016121	16
289	4913	985.2613	304.9135	5.05447	1.184304	1.017137	17.42523
324	5832	1477.892	426.8789	5.559917	1.196147	1.018154	18.9305
361	6859	2216.838	597.6304	6.115909	1.208109	1.019172	20.51915
400	8000	3325.257	836.6826	6.7275	1.22019	1.020191	22.19459
441	9261	4987.885	1171.356	7.40025	1.232392	1.021211	23.96033
484	10648	7481.828	1639.898	8.140275	1.244716	1.022233	25.81998
529	12167	11222.74	2295.857	8.954302	1.257163	1.023255	27.77724
576	13824	16834.11	3214.2	9.849733	1.269735	1.024278	29.83594
625	15625	25251.17	4499.88	10.83471	1.282432	1.025302	32
676	17576	37876.75	6299.831	11.91818	1.295256	1.026328	34.27345
729	19683	56815.13	8819.764	13.10999	1.308209	1.027354	36.66045
784	21952	85222.69	12347.67	14.42099	1.321291	1.028381	39.16526
841	24389	127834	17286.74	15.86309	1.334504	1.02941	41.79229
900	27000	191751.1	24201.43	17.4494	1.347849	1.030439	44.54605
961	29791	287626.6	33882.01	19.19434	1.361327	1.03147	47.4312
1024	32768	431439.9	47434.81	21.11378	1.374941	1.032501	50.45251
1089	35937	647159.8	66408.73	23.22515	1.38869	1.033533	53.61492
1156	39304	970739.7	92972.22	25.54767	1.402577	1.034567	56.92348
1225	42875	1456110	130161.1	28.10244	1.416603	1.035602	60.38339
1296	46656	2184164	182225.6	30.91268	1.430769	1.036637	64
1369	50653	3276247	255115.8	34.00395	1.445076	1.037674	67.77882
1444	54872	4914370	357162.1	37.40434	1.459527	1.038712	71.72549
1521	59319	7371555	500026.9	41.14478	1.474123	1.03975	75.84583
1600	64000	11057332	700037.7	45.25926	1.488864	1.04079	80.14582
1681	68921	16585998	980052.8	49.78518	1.503752	1.041831	84.63158
1764	74088	24878998	1372074	54.7637	1.51879	1.042873	89.30944
1849	79507	37318497	1920903	60.24007	1.533978	1.043915	94.18586
1936	85184	55977745	2689265	66.26408	1.549318	1.044959	99.2675
2025	91125	83966617	3764971	72.89048	1.564811	1.046004	104.5612
2116	97336	1.26E+08	5270959	80.17953	1.580459	1.04705	110.074
2209	103823	1.89E+08	7379343	88.19749	1.596263	1.048097	115.8131
2304	110592	2.83E+08	10331080	97.01723	1.612226	1.049145	121.7859
2401	117649	4.25E+08	14463512	106.719	1.628348	1.050195	128
2500	125000	6.38E+08	20248916	117.3909	1.644632	1.051245	134.4632

nlogn
quadratic

90

80

70

60

50

40

30

20

10

0

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
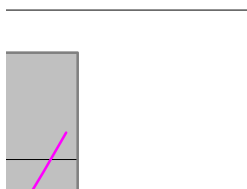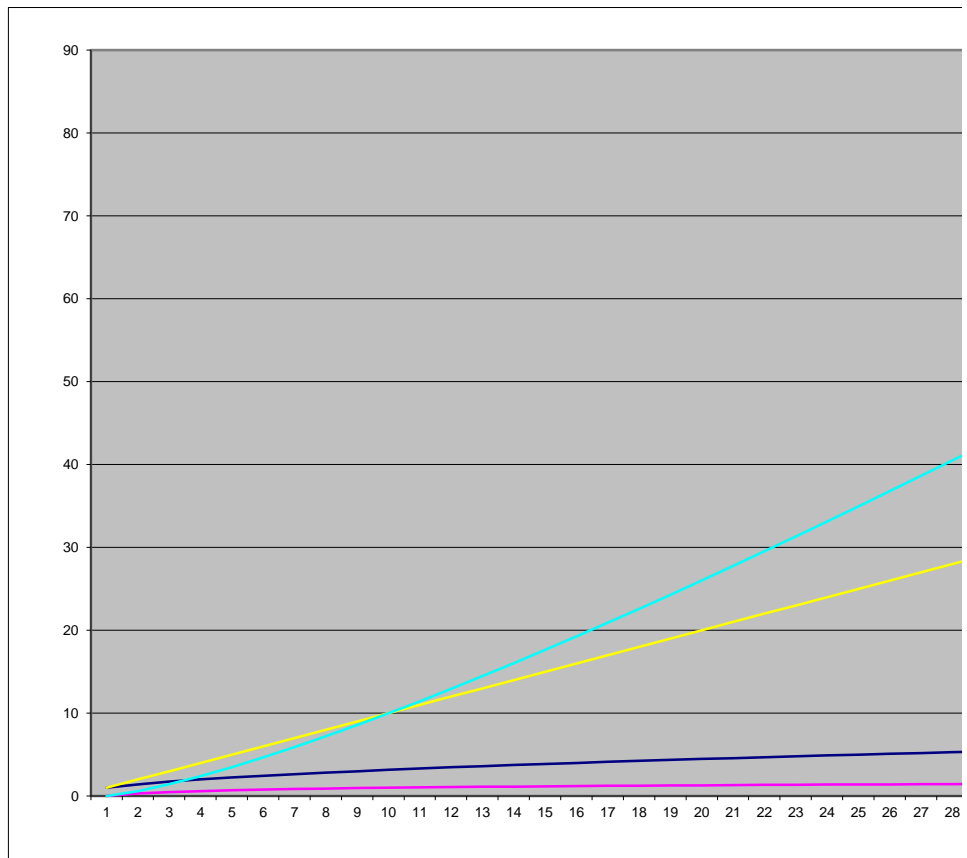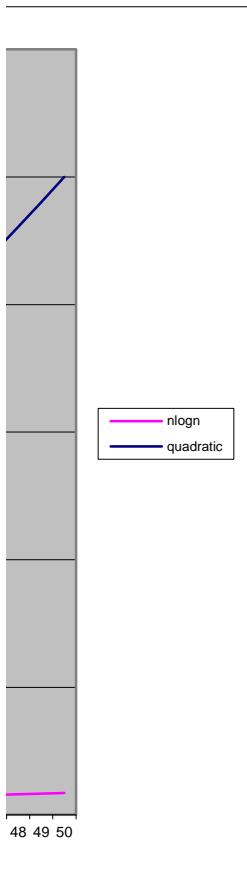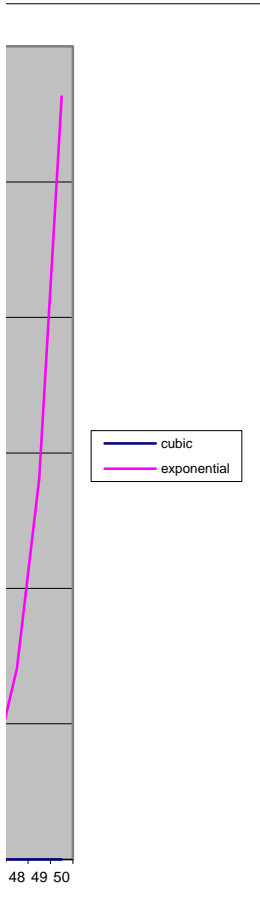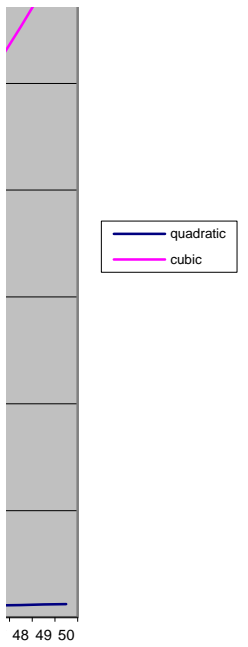
2^n

2
4
8
16
32
64
128
256
512
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8192
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131072
262144
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1048576
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1.75922E+13
3.51844E+13
7.03687E+13
1.40737E+14
2.81475E+14
5.6295E+14
1.1259E+15

Legend:
- log
- sqrt
- linear
- nlogn

X-axis: 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50