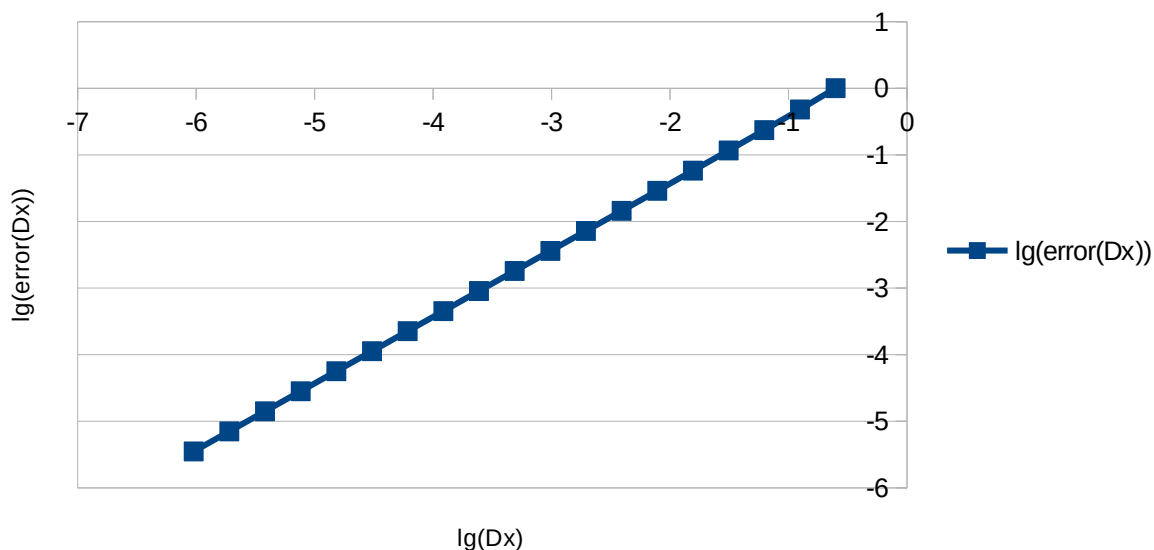


n

	Dx	Df/Dx	error(Dx)	lg(Dx)	lg(error(Dx))
2	0.25	8.39471895	1.005662851	-0.60205999	0.002452408
3	0.125	7.870731114	0.481675015	-0.90308999	-0.31724588
4	0.0625	7.6248508	0.235794701	-1.20411998	-0.62746596
5	0.03125	7.505722201	0.116666102	-1.50514998	-0.93305531
6	0.015625	7.447084939	0.05802884	-1.80617997	-1.23635611
7	0.0078125	7.417994912	0.028938813	-2.10720997	-1.53851929
8	0.00390625	7.403506659	0.01445056	-2.40823997	-1.84011533
9	0.001953125	7.396276674	0.007220575	-2.70926996	-2.1414282
10	0.000976563	7.392665211	0.003609112	-3.01029996	-2.44259961
11	0.000488281	7.390860361	0.001804262	-3.31132995	-2.7437003
12	0.000244141	7.389958157	0.000902058	-3.61235995	-3.04476564
13	0.00012207	7.389507109	0.000451011	-3.91338994	-3.34581331
14	6.10352E-05	7.3892816	0.000225501	-4.21441994	-3.64685215
15	3.05176E-05	7.389168848	0.000112749	-4.51544993	-3.94788661
16	1.52588E-05	7.389112473	5.63743E-05	-4.81647993	-4.24891882
17	7.62939E-06	7.389084286	2.8187E-05	-5.11750993	-4.549951
18	3.8147E-06	7.389070192	1.40934E-05	-5.41853992	-4.85098357
19	1.90735E-06	7.389063145	7.04657E-06	-5.71956992	-5.15202229
20	9.53674E-07	7.389059622	3.52291E-06	-6.02059991	-5.45309844

plot of $\lg(Dx) \leftrightarrow \lg(\text{error}(Dx))$



1.000025708 0.567681845

n	x	f(x)	f'(x)
0	-1	1	-0.361
1	-0.9	0.9639	-0.935
2	-0.8	0.8704	-1.305
3	-0.7	0.7399	-1.495
4	-0.6	0.5904	-1.529
5	-0.5	0.4375	-1.431
6	-0.4	0.2944	-1.225
7	-0.3	0.1719	-0.935
8	-0.2	0.0784	-0.585
9	-0.1	0.0199	-0.199
10	0	0	0.199
11	0.1	0.0199	0.585
12	0.2	0.0784	0.935
13	0.3	0.1719	1.225
14	0.4	0.2944	1.431
15	0.5	0.4375	1.529
16	0.6	0.5904	1.495
17	0.7	0.7399	1.305
18	0.8	0.8704	0.935
19	0.9	0.9639	0.361
20	1	1	

