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Biseccion - raiz x1

n	a	b	m	f(a)	f(b)	f(m)
0	-2.000000000	-1.000000000	-1.500000000	-11.873127314	1.351278729	-2.638250037
1	-1.500000000	-1.000000000	-1.250000000	-2.638250037	1.351278729	-0.122259308
2	-1.250000000	-1.000000000	-1.125000000	-0.122259308	1.351278729	0.729930825
3	-1.250000000	-1.125000000	-1.187500000	-0.122259308	0.729930825	0.334476359
4	-1.250000000	-1.187500000	-1.218750000	-0.122259308	0.334476359	0.113998150
5	-1.250000000	-1.218750000	-1.234375000	-0.122259308	0.113998150	-0.002129080
6	-1.234375000	-1.218750000	-1.226562500	-0.002129080	0.113998150	0.056431255
7	-1.234375000	-1.226562500	-1.230468750	-0.002129080	0.056431255	0.027275723
8	-1.234375000	-1.230468750	-1.232421875	-0.002129080	0.027275723	0.012604538
9	-1.234375000	-1.232421875	-1.233398438	-0.002129080	0.012604538	0.005245540
10	-1.234375000	-1.233398438	-1.233886719	-0.002129080	0.005245540	0.001560184
11	-1.234375000	-1.233886719	-1.234130859	-0.002129080	0.001560184	-0.000283959
12	-1.234130859	-1.233886719	-1.234008789	-0.000283959	0.001560184	0.000638234
13	-1.234130859	-1.234008789	-1.234069824	-0.000283959	0.000638234	0.000177168
14	-1.234130859	-1.234069824	-1.234100342	-0.000283959	0.000177168	-0.000053388

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Biseccion - raiz x2

n	a	b	m	f(a)	f(b)	f(m)
0	0.000000000	1.000000000	0.500000000	1.000000000	-1.606530660	-0.569700196
1	0.000000000	0.500000000	0.250000000	1.000000000	-0.569700196	0.210468944
2	0.250000000	0.500000000	0.375000000	0.210468944	-0.569700196	-0.188847845
3	0.250000000	0.375000000	0.312500000	0.210468944	-0.188847845	0.009487761
4	0.312500000	0.375000000	0.343750000	0.009487761	-0.188847845	-0.090135220
5	0.312500000	0.343750000	0.328125000	0.009487761	-0.090135220	-0.040422049
6	0.312500000	0.328125000	0.320312500	0.009487761	-0.040422049	-0.015489782
7	0.312500000	0.320312500	0.316406250	0.009487761	-0.015489782	-0.003006427
8	0.312500000	0.316406250	0.314453125	0.009487761	-0.003006427	0.003239343
9	0.314453125	0.316406250	0.315429688	0.003239343	-0.003006427	0.000116123
10	0.315429688	0.316406250	0.315917969	0.000116123	-0.003006427	-0.001445236
11	0.315429688	0.315917969	0.315673828	0.000116123	-0.001445236	-0.000664577
12	0.315429688	0.315673828	0.315551758	0.000116123	-0.000664577	-0.000274232
13	0.315429688	0.315551758	0.315490723	0.000116123	-0.000274232	-0.000079056

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Biseccion - raiz x3

n	a	b	m	f(a)	f(b)	f(m)
0	1.000000000	2.000000000	1.500000000	-1.606530660	1.528482235	-1.187824744
1	1.500000000	2.000000000	1.750000000	-1.187824744	1.528482235	-0.167264935
2	1.750000000	2.000000000	1.875000000	-0.167264935	1.528482235	0.590058344
3	1.750000000	1.875000000	1.812500000	-0.167264935	0.590058344	0.189522592
4	1.750000000	1.812500000	1.781250000	-0.167264935	0.189522592	0.005756188
5	1.750000000	1.781250000	1.765625000	-0.167264935	0.005756188	-0.082085518
6	1.765625000	1.781250000	1.773437500	-0.082085518	0.005756188	-0.038498954
7	1.773437500	1.781250000	1.777343750	-0.038498954	0.005756188	-0.016455143
8	1.777343750	1.781250000	1.779296875	-0.016455143	0.005756188	-0.005370441
9	1.779296875	1.781250000	1.780273438	-0.005370441	0.005756188	0.000187630
10	1.779296875	1.780273438	1.779785156	-0.005370441	0.000187630	-0.002592716
11	1.779785156	1.780273438	1.780029297	-0.002592716	0.000187630	-0.001202871
12	1.780029297	1.780273438	1.780151367	-0.001202871	0.000187630	-0.000507703
13	1.780151367	1.780273438	1.780212402	-0.000507703	0.000187630	-0.000160057
14	1.780212402	1.780273438	1.780242920	-0.000160057	0.000187630	0.000013781

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Newton - raiz x1

n	x	f(x)	f'(x)
0	-1.200000000	0.248148927	7.005010657
1	-1.235424490	-0.010071849	7.576830241
2	-1.234095194	-0.000014494	7.555027095

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Newton - raiz x2

n	x	f(x)	f'(x)
0	0.300000000	0.049536282	-3.207692927
1	0.315442963	0.000073672	-3.197826396

Newton - raiz x3

n	x	f(x)	f'(x)
0	1.800000000	0.114714302	5.914992074
1	1.780606178	0.002083807	5.700492657
2	1.780240630	0.000000735	5.696472352

Secante - raiz x1

n	x	f(x)
0	-2.000000000	-11.873127314
1	-1.000000000	1.351278729
2	-1.102180674	0.859753803
3	-1.280910620	-0.371933176
4	-1.226939443	0.053628664
5	-1.233740810	0.002661859
6	-1.234096027	-0.000020786

Secante - raiz x2

n	x	f(x)
0	0.000000000	1.000000000
1	1.000000000	-1.606530660
2	0.383651731	-0.215982972
3	0.287919142	0.088327560
4	0.315705975	-0.000767372
5	0.315466648	-0.000002069

Secante - raiz x3

n	x	f(x)
0	1.000000000	-1.606530660
1	2.000000000	1.528482235
2	1.512447863	-1.151454803
3	1.721928251	-0.313686040
4	1.800364063	0.116868469
5	1.779073673	-0.006639314
6	1.780218165	-0.000127234
7	1.780240526	0.000000143

Raices exactas:

x1 = -1.2340932753  
x2 = 0.3154660008  
x3 = 1.7802405007

Raices aproximadas por metodo:

Biseccion:

x1 = -1.2341003418  
x2 = 0.3154907227  
x3 = 1.7802429199

Newton:

x1 = -1.2340951938  
x2 = 0.3154429627  
x3 = 1.7802406297

Secante:

x1 = -1.2340960266  
x2 = 0.3154666479  
x3 = 1.7802405258

Error relativo porcentual por metodo:

Biseccion:

x1 = 5.7260638368e-04 %

x2 = 7.8366150987e-03 %

x3 = 1.3589298042e-04 %

Newton:

x1 = 1.5545562796e-04 %

x2 = 7.3028889445e-03 %

x3 = 7.2440466904e-06 %

Secante:

x1 = 2.2293980914e-04 %

x2 = 2.0512508098e-04 %

x3 = 1.4123281671e-06 %