f(x) = xe^x-1 x=0.567

Significant digits 3
epsilon_s 0.05

x_l	x_u	f(x_l)	f(x_u)	x_r	f(x_r)	epsilon_a	f(xl)f(xr)
0	1	-1	1.718282	0.367879	-0.46854		0.468536
0.367879	1	-0.46854	1.718282	0.503314	-0.16742	26.90861	0.078442
0.503314	1	-0.16742	1.718282	0.547412	-0.05365	8.055672	0.008982
0.547412	1	-0.05365	1.718282	0.561115	-0.01658	2.4421	0.000889
0.561115	1	-0.01658	1.718282	0.565308	-0.00506	0.741763	8.39E-05
0.565308	1	-0.00506	1.718282	0.566585	-0.00154	0.225395	7.8E-06
0.566585	1	-0.00154	1.718282	0.566974	-0.00047	0.068497	7.22E-07
0.566974	1	-0.00047	1.718282	0.567092	-0.00014	0.020816	6.67E-08

f(x) = cosx-xe^x x=0.518

Significant digits 3

epsilon_s 0.05

x_l	x_u	f(x_l)	f(x_u)	x_r	f(x_r)	epsilon_a	f(xl)f(xr)
0	1	1	-2.17798	0.314665	0.519871		0.519871
0.314665	1	0.519871	-2.17798	0.446728	0.203545	29.56223	0.105817
0.446728	1	0.203545	-2.17798	0.494015	0.070802	9.572009	0.014411
0.494015	1	0.070802	-2.17798	0.509946	0.023608	3.124017	0.001671
0.509946	1	0.023608	-2.17798	0.515201	0.00776	1.019965	0.000183
0.515201	1	0.00776	-2.17798	0.516922	0.002539	0.332971	1.97E-05
0.516922	1	0.002539	-2.17798	0.517485	0.000829	0.108692	2.11E-06
0.517485	1	0.000829	-2.17798	0.517668	0.000271	0.03548	2.25E-07

f(x) = xlogx-1.2 x=2.741

Significant digits 3
epsilon_s 0.05

x_l	x_u	f(x_l)	f(x_u)	x_r	f(x_r)	epsilon_a
2	3	-0.59794	0.231364	2.721014	-0.01709	
2.721014	3	-0.01709	0.231364	2.740206	-0.00038	0.700359
2.740206	3	-0.00038	0.231364	2.740636	-8.6E-06	0.015709