

iteration	$x_n$	$x_{n+1}$	$x_{n+1} - x_n$
0	-1	-0.31304943300449195	0.686950566995508
1	-0.31304943300449195	-0.2636505666726228	0.04939886633186913
2	-0.2636505666726228	-0.23457786469372593	0.029072701978896887
3	-0.23457786469372593	-0.21656194195855072	0.018015922735175216
4	-0.21656194195855072	-0.2050820146358082	0.011479927322742528
5	-0.2050820146358082	-0.19764570909941012	0.007436305536398069
6	-0.19764570909941012	-0.19277960914511322	0.004866099954296904
7	-0.19277960914511322	-0.18957480323130374	0.0032048059138094775
8	-0.18957480323130374	-0.18745532553472577	0.0021194776965779705
9	-0.18745532553472577	-0.186049810478207	0.001405515056518758
10	-0.186049810478207	-0.18511608796794457	0.0009337225102624414
11	-0.18511608796794457	-0.18449505791118137	0.0006210300567631999
12	-0.18449505791118137	-0.18408168025822427	0.0004133776529570976
13	-0.18408168025822427	-0.18380637982069103	0.00027530043753323796
14	-0.18380637982069103	-0.18362297251725587	0.00018340730343516243
15	-0.18362297251725587	-0.18350075699513327	0.000122215522122604
16	-0.18350075699513327	-0.1834193048651846	8.145212994867257e-05
17	-0.1834193048651846	-0.1833650158769222	5.428898826240203e-05
18	-0.1833650158769222	-0.18332882638451586	3.618949240632996e-05
19	-0.18332882638451586	-0.1833047070220908	2.4119362425051305e-05
20	-0.1833047070220908	-0.18328861872901317	1.6088293077642923e-05
21	-0.18328861872901317	-0.18327787866022516	1.0740068788012147e-05
22	-0.18327787866022516	-0.1832707472090781	7.13145114705771e-06
23	-0.1832707472090781	-0.1832659492181092	4.797990968891108e-06
24	-0.1832659492181092	-0.18326263223416403	3.316983945178542e-06
25	-0.18326263223416403	-0.18326099126148293	1.6409726810995284e-06
26	-0.18326099126148293		

f(x)
-0.17356546601839162
-0.003979887996199083
-0.0010911840842249831
-0.00030914914499952095
-8.911713760723083e-05
-2.5949530432833878e-05
-7.602880819634894e-06
-2.236249355636044e-06
-6.594054887121281e-07
-1.947580318684139e-07
-5.758439464154108e-08
-1.7038142396952338e-08
-5.043635120660639e-09
-1.4934838366009728e-09
-4.423308941348125e-10
-1.310250241637334e-10
-3.881511778658364e-11
-1.1499079466403828e-11
-3.4071079291209116e-12
-1.0092482405354986e-12
-2.9926061628771095e-13
-8.876233081878127e-14
-2.6145752229922437e-14
-7.827072323607354e-15
-2.3869795029440866e-15
-4.996003610813204e-16
-1.6653345369377348e-16