## Console

n	xn	f(xn)	Xn+1
	f(Xn+1)	Xn+2	Error
0	0.0000000000	1.0000000000	1.0000000000
	-2.1779795226	0.3146653378	0.3146653378
1	1.000000000	-2.1779795226	0.3146653378
	0.5198711738	0.4467281446	0.5532718554
2	0.3146653378	0.5198711738	0.4467281446
	0.2035447778	0.5317058606	0.2170405228
3	0.4467281446	0.2035447778	0.5317058606
	-0.0429310932	0.5169044676	0.0701763230
4	0.5317058606	-0.0429310932	0.5169044676
	0.0025927631	0.5177474653	0.0139583954
5	0.5169044676	0.0025927631	0.5177474653
	0.0000301119	0.5177573708	0.0008529032

Therefore, the root is 0.5178 correct upto 4 decimal places