Console

n	xn	f(xn)	f1(xn)
	Xn+1	Error	
---	---	---	---
0	1.5000000000	-1.0625000000	3.7125000000
	1.7861952862	0.2861952862	
1	1.7861952862	0.7239329540	9.6004862996
	1.7107894233	0.0754058629	
2	1.7107894233	0.0800135696	7.5470618805
	1.7001874737	0.0106019496	
3	1.7001874737	0.0013663706	7.2905675473
	1.7000000574	0.0001874162	

The solution of this equation by newton raphshon after 4 Iterations is 1.7000000574

n	x1	f(x1)	x2			
	f(x2)	x3	f(x3)			
---	---	---	---	---	---	---
0	1.000000	-2.100000	2.000000	3.600000	1.368421	-1.458356
1	1.368421	-1.458356	2.000000	3.600000	1.550509	-0.857895
2	1.550509	-0.857895	2.000000	3.600000	1.637011	-0.414391
3	1.637011	-0.414391	2.000000	3.600000	1.674481	-0.178359
4	1.674481	-0.178359	2.000000	3.600000	1.689847	-0.072757
5	1.689847	-0.072757	2.000000	3.600000	1.695991	-0.029016
6	1.695991	-0.029016	2.000000	3.600000	1.698422	-0.011467
7	1.698422	-0.011467	2.000000	3.600000	1.699380	-0.004515

Therefore the solution by regula falsi method after 7 iterations is 1.699379696

i	0	1
	2	3
	4	
---	---	---
z0	1.0000000000	2.0000000000
	3.0000000000	1.8923871014
	1.7819709257	
z1	2.0000000000	3.0000000000
	1.8923871014	1.7819709257
	1.6357773012	
z2	3.0000000000	1.8923871014
	1.7819709257	1.6357773012
	1.7116940948	

f0	-2.1000000000	3.6000000000
	71.5000000000	1.9288129429
	0.2631537814	
f1	3.6000000000	71.5000000000
	1.9288129429	0.2631537814
	-0.8234803946	
f2	71.5000000000	1.9288129429
	0.2631537814	-0.8234803946
	0.0868318462	
li	1.0000000000	-1.1076128986
	0.0996884163	0.5385103021
	-0.8008961001	
di	2.0000000000	-0.1076128986
	1.0996884163	1.5385103021
	0.1991038999	
gi	198.0000000000	1.2445512333
	-2.4578861956	-0.9247265103
	2.0544384878	
li+1	-1.1076128986	0.0996884163
	0.5385103021	-0.8008961001
	-0.0128389039	
hi	1.0000000000	-1.1076128986
	-0.1104161757	-0.1461936245
	0.0759167936	
hi+1	-1.1076128986	-0.1104161757
	-0.1461936245	0.0759167936
	-0.0110105673	
zi+1	1.8923871014	1.7819709257
	1.6357773012	1.7116940948
	1.7006835275	
D+	258.2129554166	1.2445512333
	-0.8262059185	1.0673282131
	4.0509097381	
D_	137.7870445834	1.2445512333
	-4.0895664727	-2.9167812337
	0.0579672376	

At the end of the 4th iteration by mullers method, the root of the equation is 1.70068