

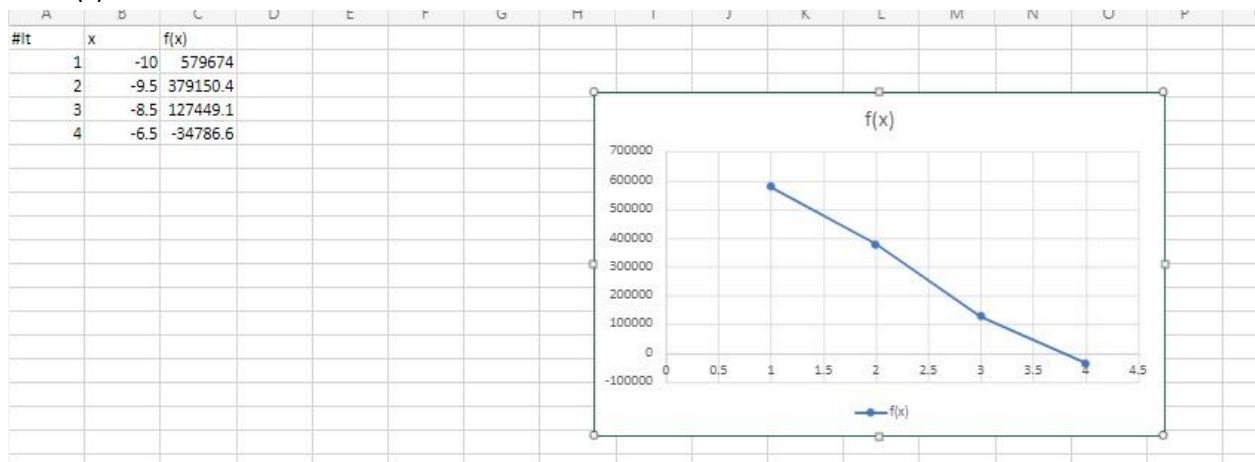
[1] bounding phase

#It	x	f(x)
1	-10.00	579674.00
2	-9.50	379150.44
3	-8.50	127449.06
4	-6.50	-34786.55

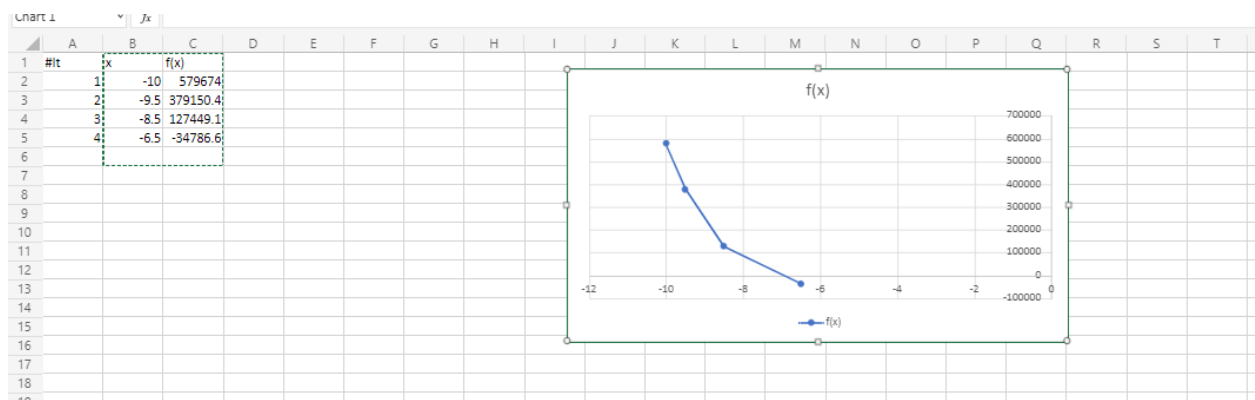
#The minimum point lies between (-8.500000,-2.500000)

#Total number of function evaluations: 6

N vs F(x)



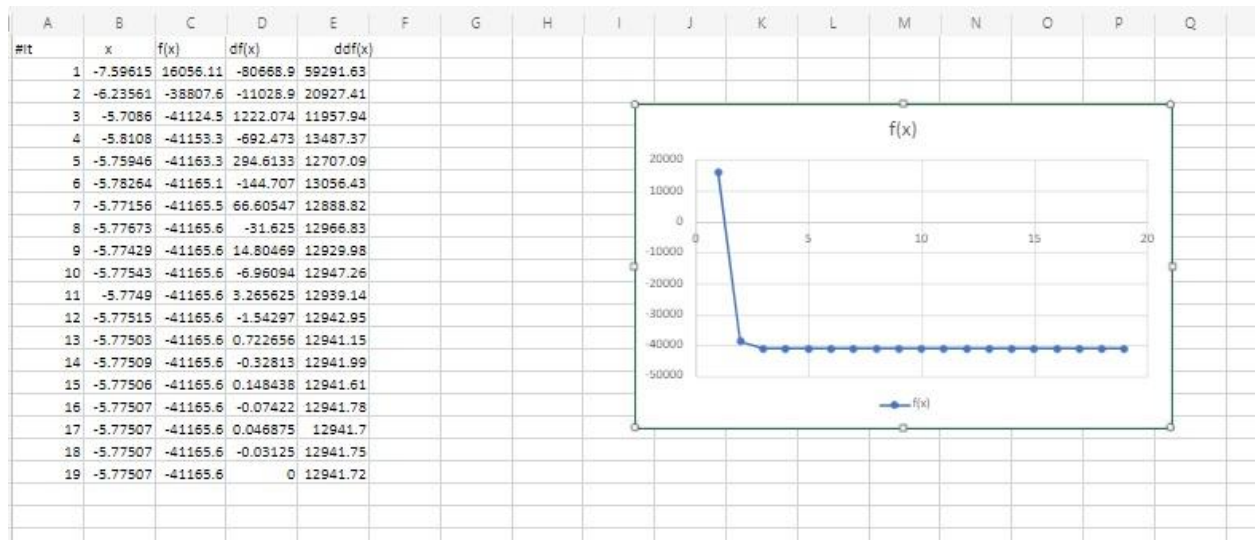
X v/s F(x)



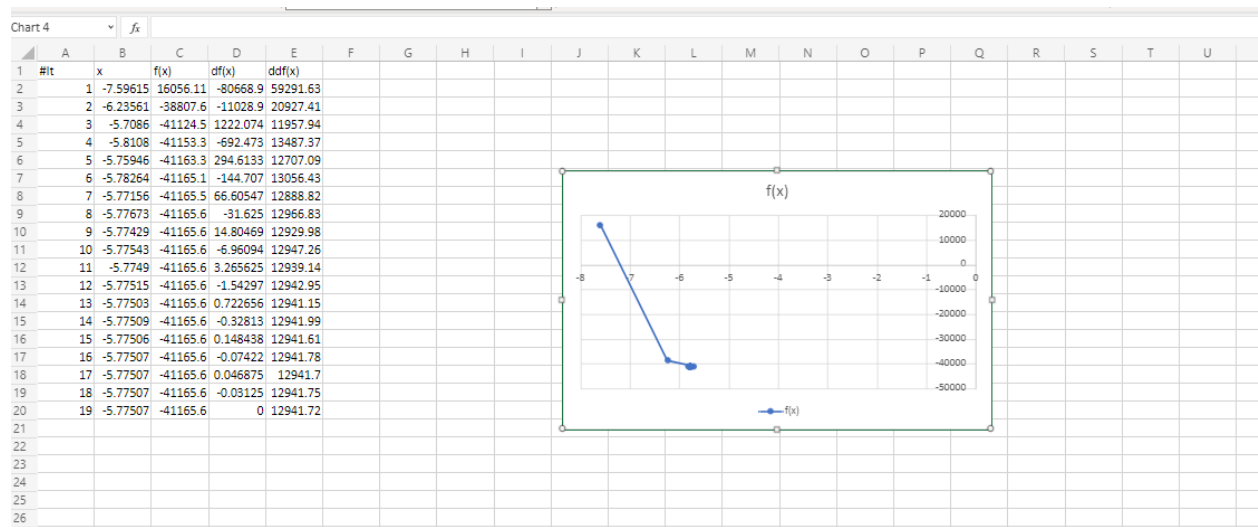
Newton raphson

#It	x	f(x)	df(x)	ddf(x)
1	-7.596154	16056.109375	-80668.875000	59291.625000
2	-6.235610	-38807.597656	-11028.863281	20927.406250
3	-5.708604	-41124.539062	1222.074219	11957.940430
4	-5.810802	-41153.304688	-692.472656	13487.370117
5	-5.759459	-41163.296875	294.613281	12707.085938
6	-5.782644	-41165.082031	-144.707031	13056.425781
7	-5.771561	-41165.496094	66.605469	12888.815430
8	-5.776728	-41165.574219	-31.625000	12966.827148
9	-5.774289	-41165.605469	14.804688	12929.975586
10	-5.775434	-41165.640625	-6.960938	12947.260742
11	-5.774896	-41165.628906	3.265625	12939.138672
12	-5.775148	-41165.609375	-1.542969	12942.951172
13	-5.775029	-41165.613281	0.722656	12941.153320
14	-5.775085	-41165.617188	-0.328125	12941.992188
15	-5.775060	-41165.613281	0.148438	12941.611328
16	-5.775071	-41165.605469	-0.074219	12941.784180
17	-5.775065	-41165.621094	0.046875	12941.696289
18	-5.775069	-41165.613281	-0.031250	12941.754883
19	-5.775067	-41165.589844	0.000000	12941.721680

N v/s F(x)



X V/S F(x)



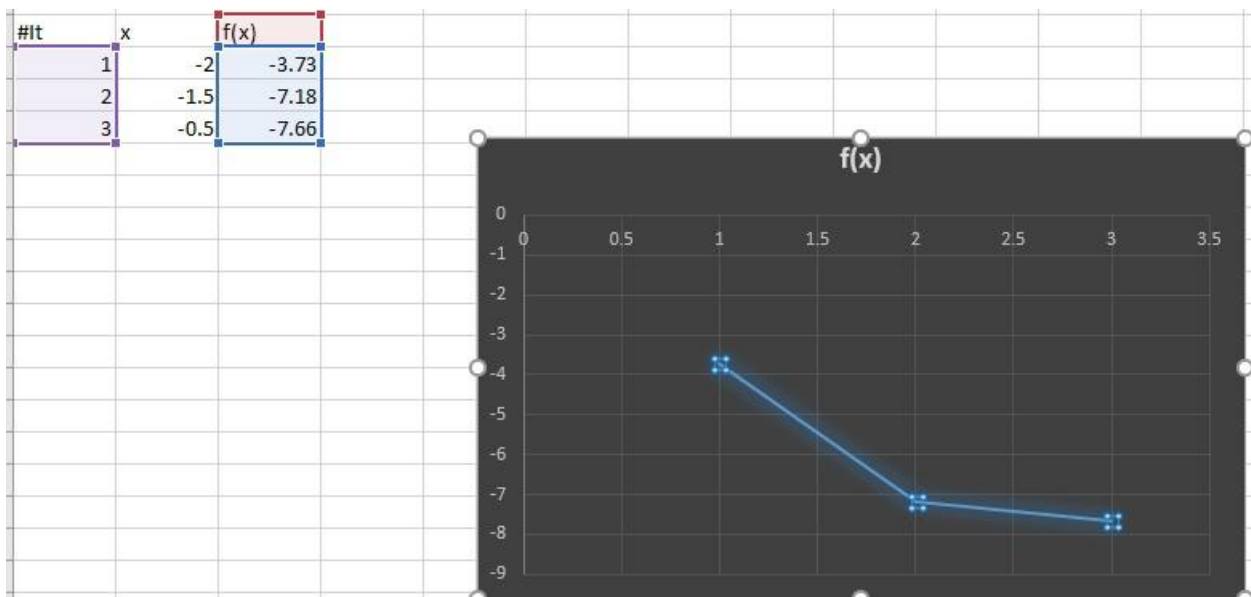
[2] bounding phase

#It	x	f(x)
1	-2.00	-3.73
2	-1.50	-7.18
3	-0.50	-7.66

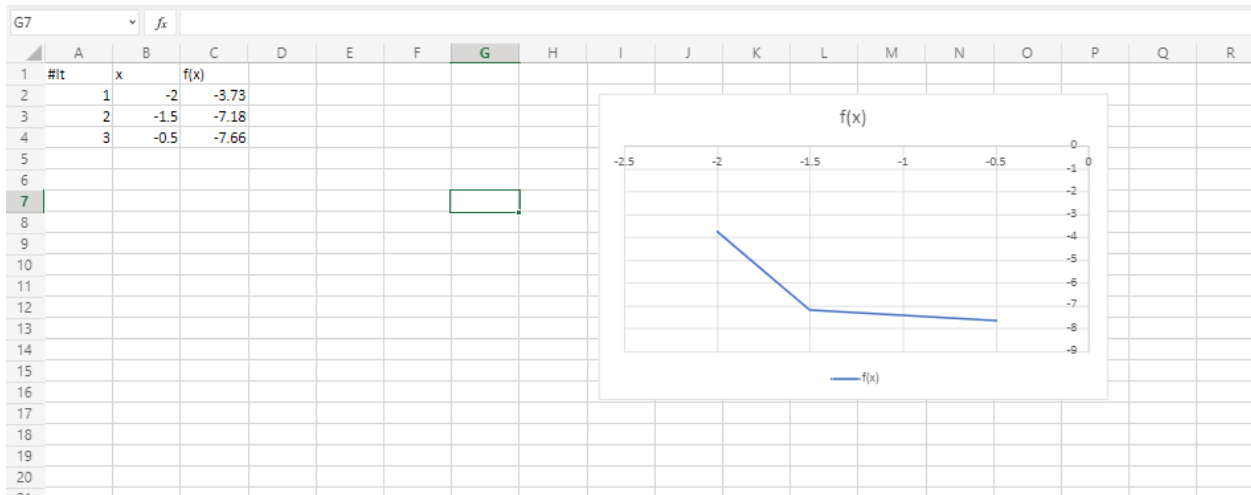
#The minimum point lies between (-1.500000,1.500000)

#Total number of function evaluations: 5

N V/S F(x)



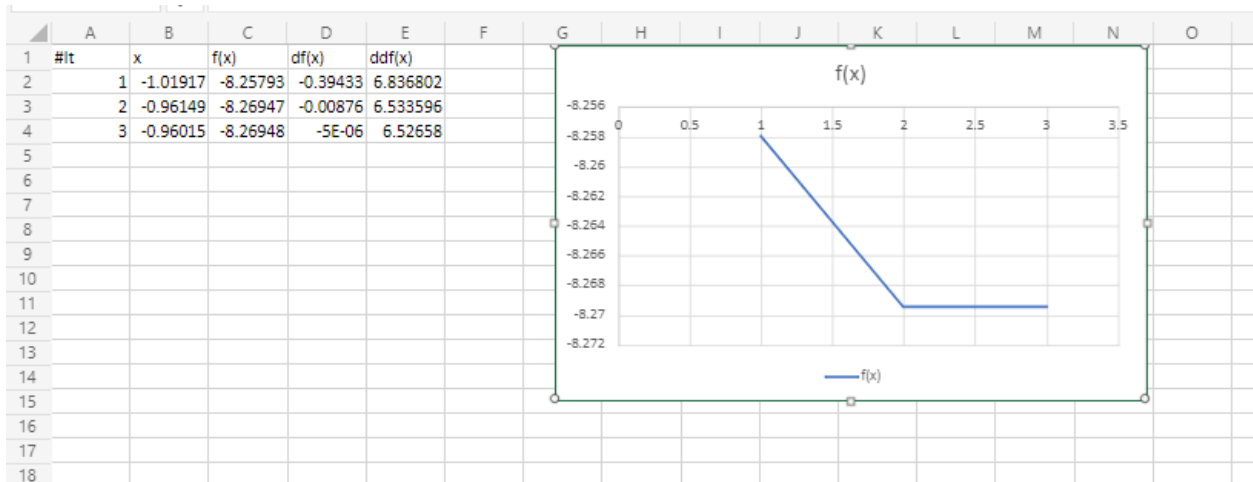
X V/S F(x)



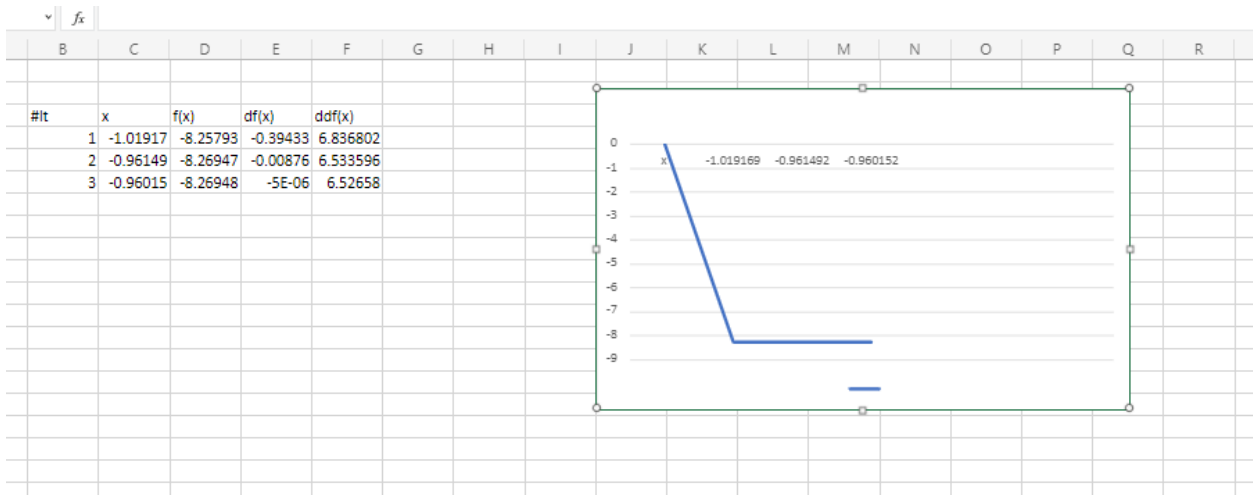
Newton raphson

#It	x	f(x)	df(x)	ddf(x)
1	-1.019169	-8.257933	-0.394325	6.836802
2	-0.961492	-8.269473	-0.008756	6.533596
3	-0.960152	-8.269478	-0.000005	6.526580

N V/S F(x)



X V/S F(x)



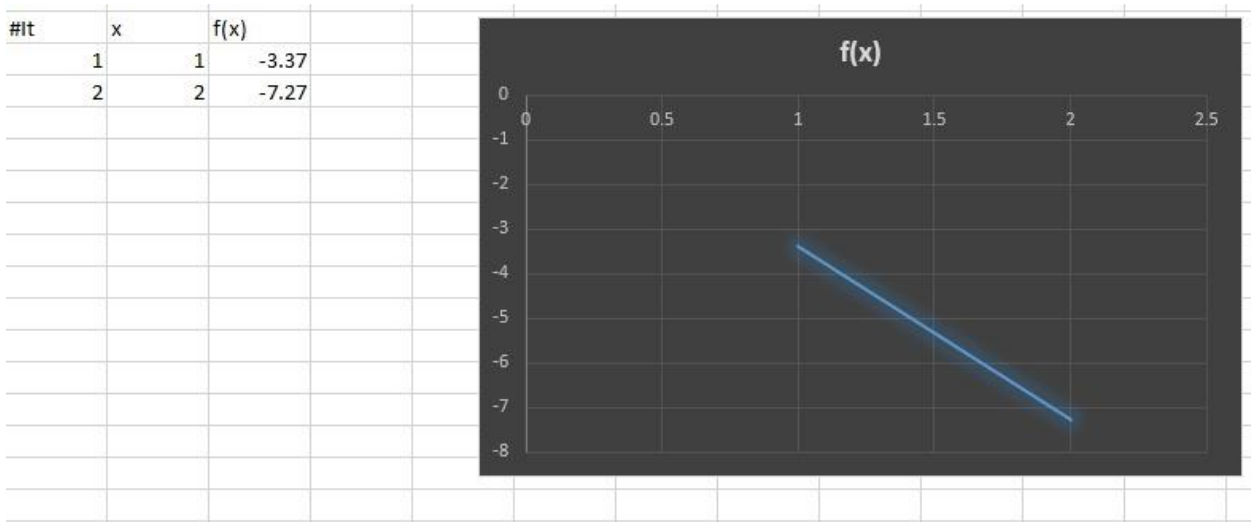
[3] BP

#It	x	f(x)
1	1.00	-3.37
2	1.50	-5.98

#The minimum point lies between (1.000000,2.500000)

#Total number of function evaluations: 4

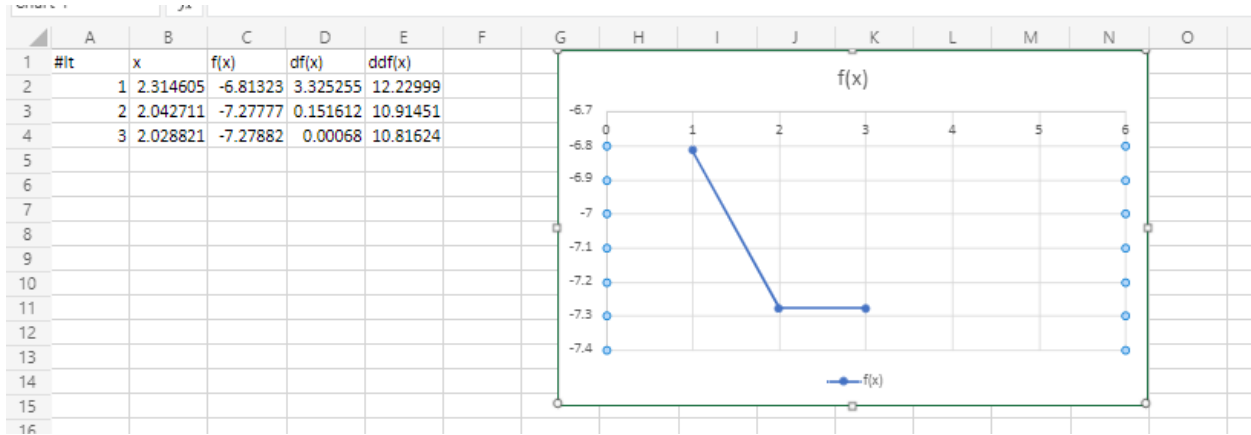
N V/S F(x)



NR

#It	x	f(x)	df(x)	ddf(x)
1	2.314605	-6.813226	3.325255	12.229990
2	2.042711	-7.277767	0.151612	10.914511
3	2.028821	-7.278823	0.000680	10.816239

N V/S F(x)



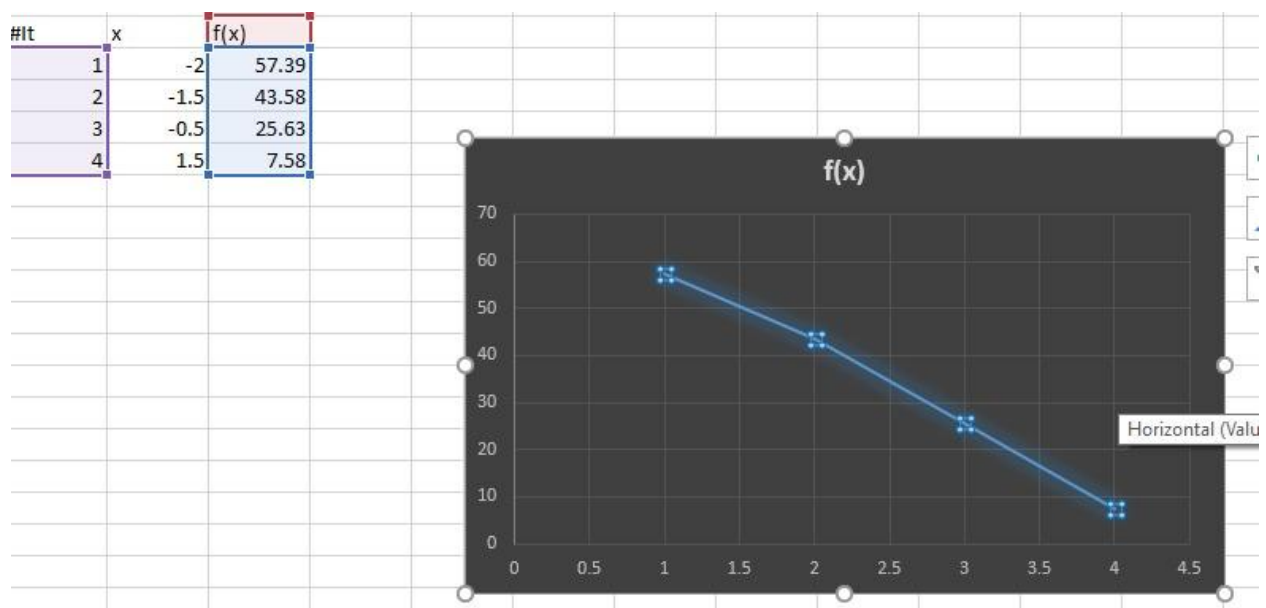
[4] B P

#It	x	f(x)
1	-2.00	57.39
2	-1.50	43.58
3	-0.50	25.63
4	1.50	7.58

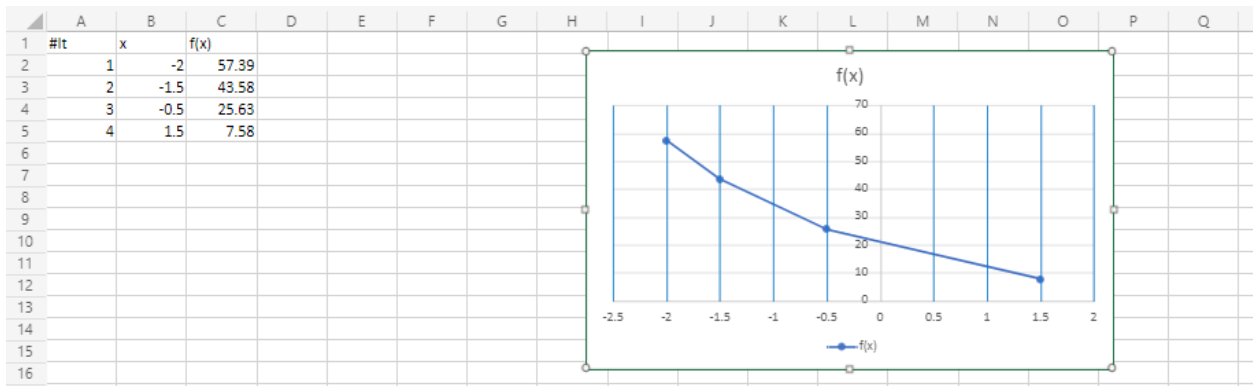
#The minimum point lies between (-0.500000,5.500000)

#Total number of function evaluations: 6

N V/S F(x)



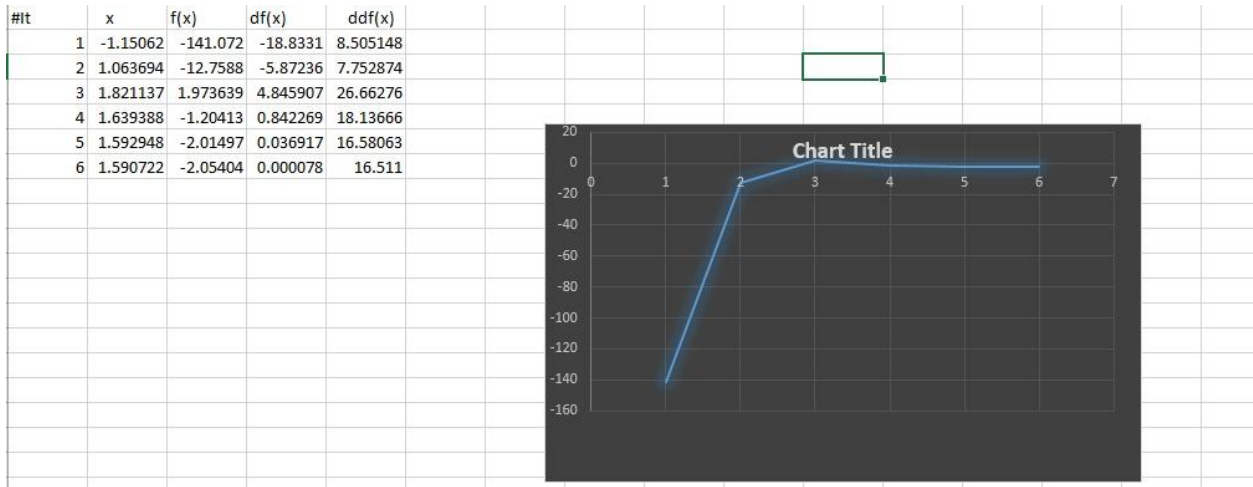
X V/S F(x)



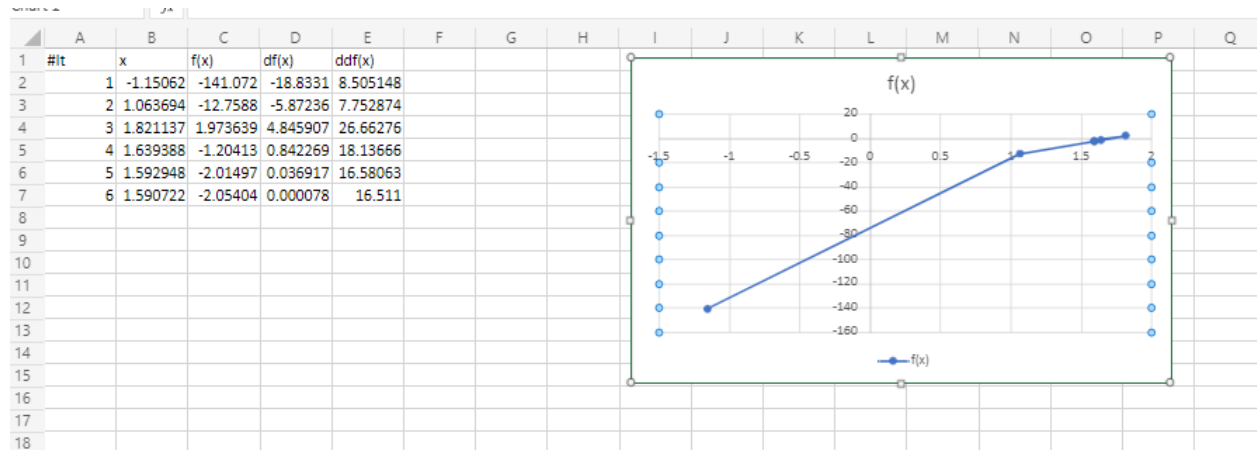
N R

#It	x	f(x)	df(x)	ddf(x)
1	-1.150620	-141.072174	-18.833063	8.505148
2	1.063694	-12.758797	-5.872359	7.752874
3	1.821137	1.973639	4.845907	26.662760
4	1.639388	-1.204129	0.842269	18.136662
5	1.592948	-2.014969	0.036917	16.580626
6	1.590722	-2.054042	0.000078	16.510998

N V/S F (x)



X V/S F(x)



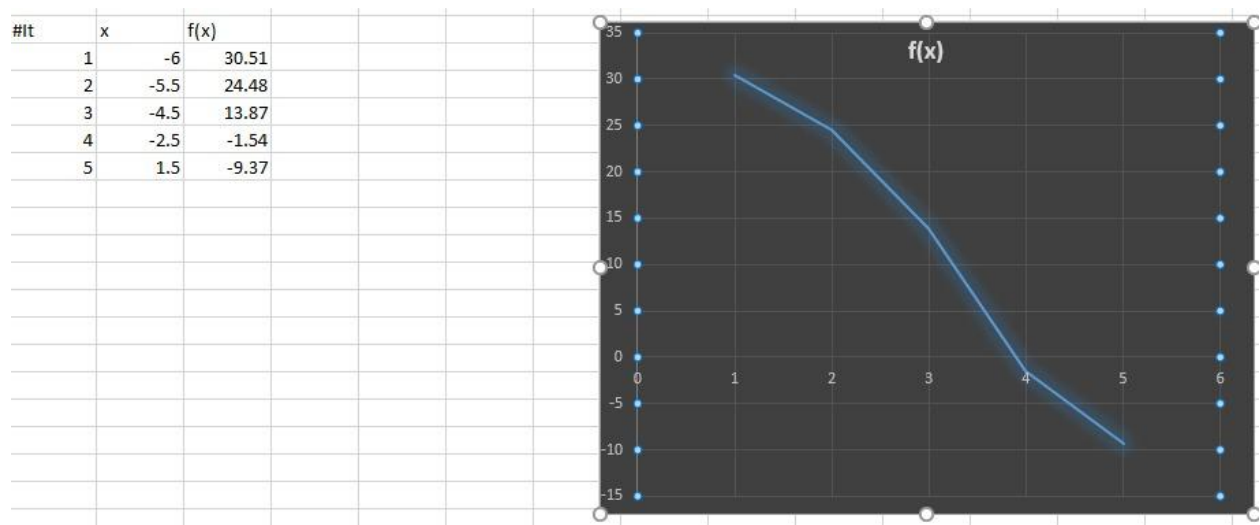
[5] B P

#It	x	f(x)
1	-6.00	30.51
2	-5.50	24.48
3	-4.50	13.87
4	-2.50	-1.54
5	1.50	-9.37

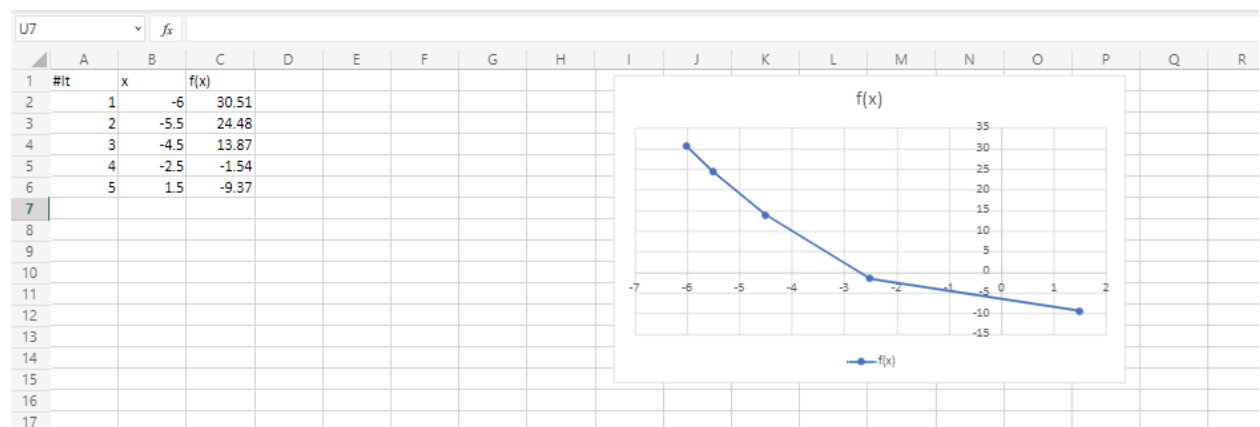
#The minimum point lies between (-2.500000,9.500000)

#Total number of function evaluations: 7

N V/S F(x)



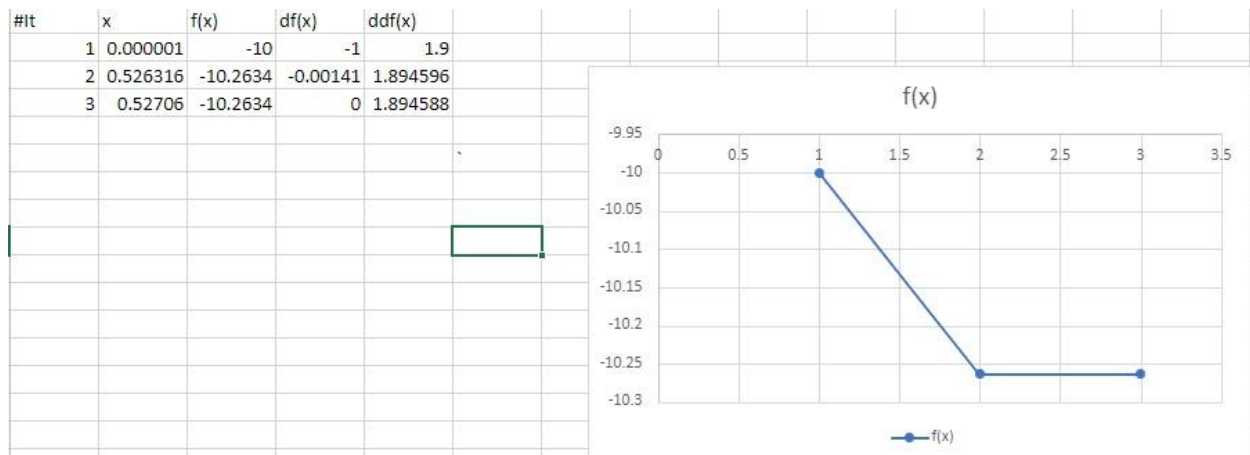
X V/S F(x)



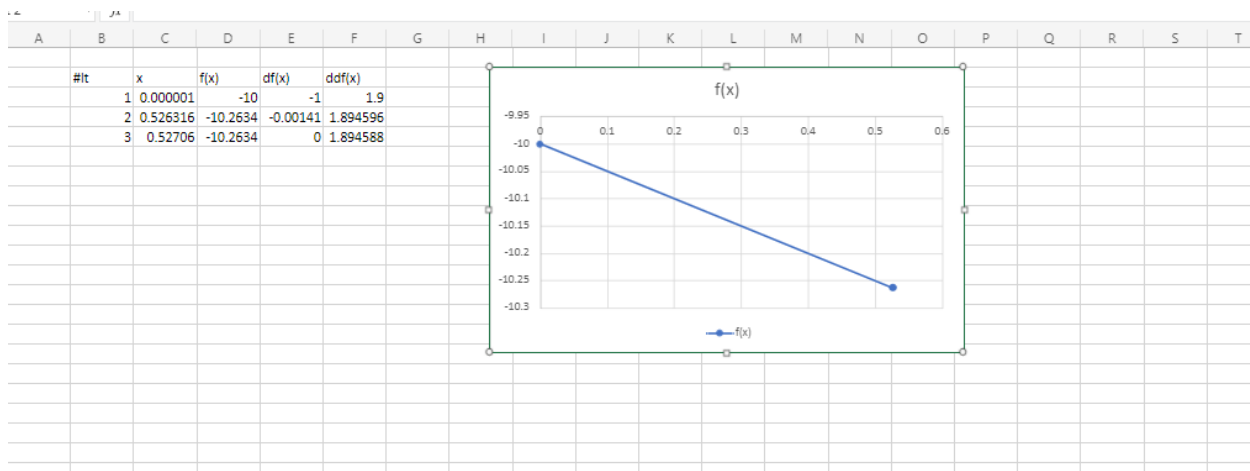
N R

#It	x	f(x)	df(x)	ddf(x)
1	0.000001	-10.000001	-0.999998	1.900000
2	0.526316	-10.263404	-0.001410	1.894596
3	0.527060	-10.263405	0.000000	1.894588

N V/S F(x)



X V/S F(x)



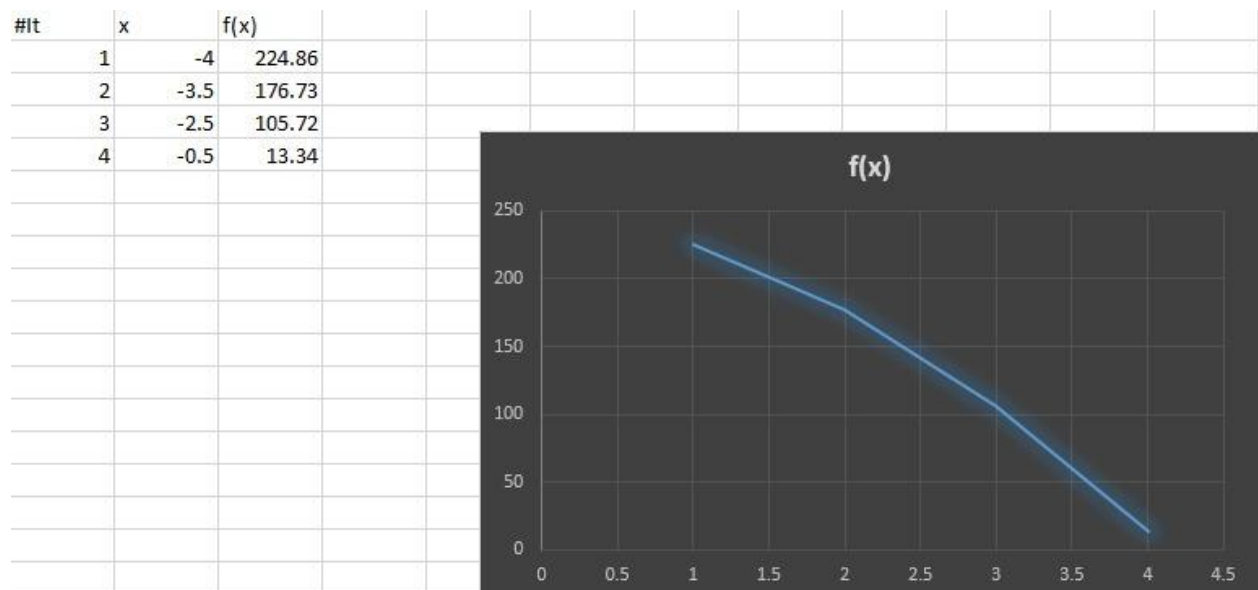
[6] B P

#It	x	f(x)
1	-4.00	224.86
2	-3.50	176.73
3	-2.50	105.72
4	-0.50	13.34

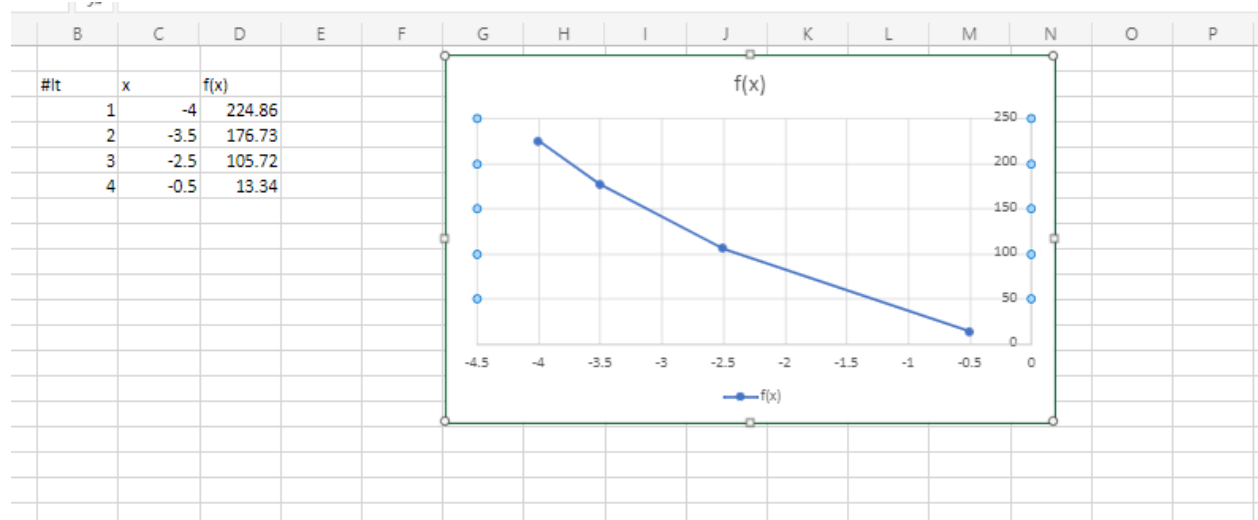
#The minimum point lies between (-2.500000,3.500000)

#Total number of function evaluations: 6

N V/S F(x)



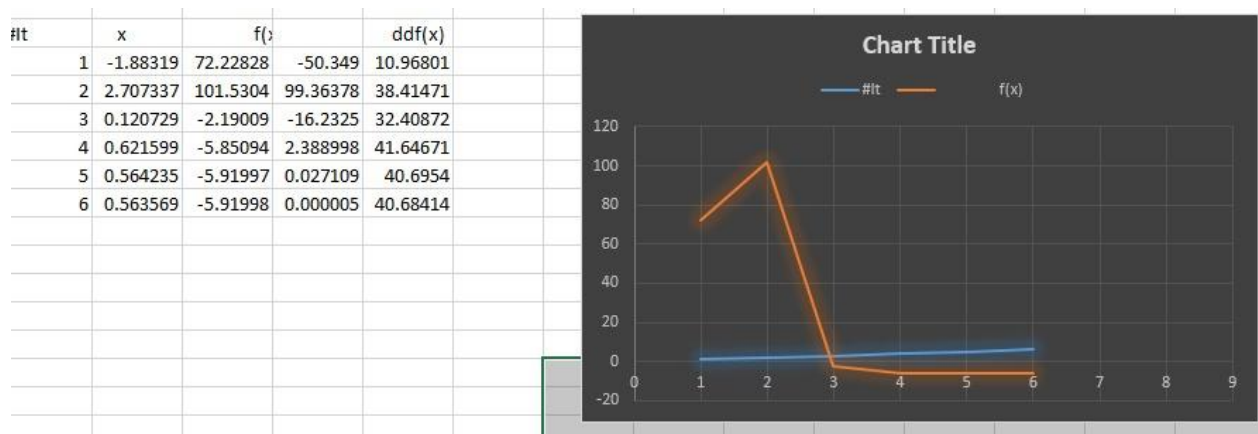
X V/S F(x)



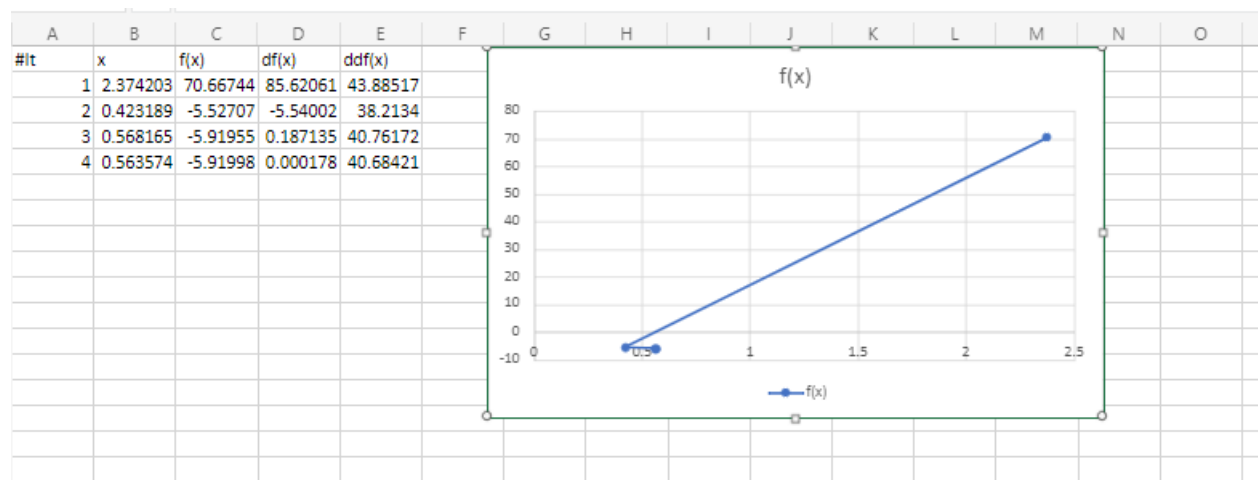
N R

#It	x	f(x)	df(x)	ddf(x)
1	2.374203	70.667435	85.620605	43.885174
2	0.423189	-5.527069	-5.540016	38.213402
3	0.568165	-5.919554	0.187135	40.761719
4	0.563574	-5.919983	0.000178	40.684212

N V/S F(x)



X V/S F(x)



CONCLUSIONS= In Bounding phase method it converge or minimize the function into a specific interval. This is the best method to converge any function into a specific range within less no. of intervals. After once the range obtained then Newton raphson method converges its very fast because newton raphson method have the second order of convergence.

