

Console

r	x(r)	y(r)	z(r)
0.	- 2.4	5.	0.3
1.	- 4.254	3.90785	2.1208395
2.	- 4.3739771	2.9522624	2.0665107
3.	- 4.0321841	2.958055	2.0011191
4.	- 3.9883196	2.99793	1.9974505
5.	- 3.9976279	3.001474	1.999716
6.	- 4.0002423	3.0002207	2.0000748
7.	- 4.0001171	2.9999621	2.0000183
8.	- 4.0000013	2.9999877	1.9999987
9.	- 3.9999955	3.0000004	1.9999992
10.	- 3.9999995	3.0000005	2.
11.	- 4.0000001	3.	2.
12.	- 4.	3.	2.
13.	- 4.	3.	2.

After 12 iterations exact solution is:

x=-4 y=2 z=2