

Console

n	x0 x3	x1 y	x2 dx0
1	0.5000000000 0.5797030949	0.6065306597 0.5672989893	0.5452392119 0.0672989893
2	0.5672989893 0.5671148891	0.5670549937 0.5671432912	0.5671933695 -0.0001556981
3	0.5671432912 0.5671432903	0.5671432900 0.5671432904	0.5671432907 -0.0000000008

The solution of this equation after 3 iterations is 0.5671432904