

Console

Iteration	x1 f(z)	x2		z	

0		0.000000	2.000000	1.000000	1.000000
1		1.000000	2.000000	1.500000	0.837117
2		1.500000	2.000000	1.750000	1.162665
3		1.750000	2.000000	1.875000	1.499955
4		1.875000	2.000000	1.937500	1.726893
5		1.937500	2.000000	1.968750	1.857289
6		1.968750	2.000000	1.984375	1.927054
7		1.984375	2.000000	1.992188	1.963123
8		1.992188	2.000000	1.996094	1.981460
9		1.996094	2.000000	1.998047	1.990704
10		1.998047	2.000000	1.999023	1.995346

The solution of this equation is 1.99902 after 10 Iterations

Note : There are computational errors in the answer given by the book for this exan