

Console

n	x1 f(x2) x4	x2	f(x1) x3	x2 f(x3)	sign	
0	2.000000	-3.000000	3.000000	13.000000	2.500000	3.125000
-1	2.740741					
1	2.000000	-3.000000	2.740741	7.365295	2.370371	1.207186
-1	2.462990					
2	2.000000	-3.000000	2.462990	2.552320	2.231495	-0.582598
-1	2.180788					
3	2.180788	-1.170890	2.462990	2.552320	2.321889	0.552032
-1	2.363286					
4	2.180788	-1.170890	2.363286	1.109373	2.272037	-0.087512
-1	2.264782					
5	2.264782	-0.177744	2.363286	1.109373	2.314034	0.448975
-1	2.341543					
6	2.264782	-0.177744	2.341543	0.813634	2.303162	0.307767
-1	2.320724					
7	2.264782	-0.177744	2.320724	0.536695	2.292753	0.174094
-1	2.302134					
8	2.264782	-0.177744	2.302134	0.294491	2.283458	0.055985
-1	2.286634					

The solution of this equation is 2.28663 after 8 iterations

There are computation error in the answers given by the book in this example

(value of x1 is used instead of x2)