

Método da bissecção

n	an	xn	bn	f(an)	f(xn)	f(bn)	ERn
0	10	10.5	11	-20	63.82760625	70.0637	
1	10	10.25	10.5	-20	35.3276082	63.82760625	0.0243902439
2	10	10.125	10.25	-20	11.56005242	35.3276082	0.01234567901
3	10	10.0625	10.125	-20	-3.17285925	11.56005242	0.006211180124
4	10.0625	10.09375	10.125	-3.17285925	4.44600558	11.56005242	0.003095975232
5	10.0625	10.078125	10.09375	-3.17285925	0.7008315856	4.44600558	0.001550387597
6	10.0625	10.0703125	10.078125	-3.17285925	-1.219803396	0.7008315856	0.0007757951901
7	10.0703125	10.07421875	10.078125	-1.219803396	-0.2554515835	0.7008315856	0.0003877471888
8	10.07421875	10.07617188	10.078125	-0.2554515835	0.2236963008	0.7008315856	0.0001938360147
9	10.07421875	10.07519531	10.07617188	-0.2554515835	-0.01562578138	0.2236963008	9.692740138e-05
10	10.07519531	10.07568359	10.07617188	-0.01562578138	0.1040981885	0.2236963008	4.846135207e-05
11	10.07519531	10.07543945	10.07568359	-0.01562578138	0.04425194021	0.1040981885	2.423126318e-05
12	10.07519531	10.07531738	10.07543945	-0.01562578138	0.01431701402	0.04425194021	1.211577838e-05
13	10.07519531	10.07525635	10.07531738	-0.01562578138	-0.0006534000859	0.01431701402	6.057925887e-06
14	10.07525635	10.07528687	10.07531738	-0.0006534000859	0.006832052954	0.01431701402	3.028953769e-06
15	10.07525635	10.07527161	10.07528687	-0.0006534000859	0.003089387901	0.006832052954	1.514479178e-06
16	10.07525635	10.07526398	10.07527161	-0.0006534000859	0.001218009274	0.003089387901	7.572401625e-07

Resultado achado: 10.075263977050781