Console

n	xn	f(xn)	Xn+1
	f(Xn+1)	Xn+2	Error

0	20000.000000	0.0000091621	25000.000000
	-0.0000314913	21126.855071	1126.8550706981
1	25000.000000	-0.0000314913	21126.855071
	-0.0000058351	20245.964378	4754.0356221965
2	21126.855071	-0.0000058351	20245.964378
	0.0000052892	20664.795966	462.0591048992
3	20245.964378	0.0000052892	20664.795966
	-0.0000004589	20631.357459	385.3930807826
4	20664.795966	-0.0000004589	20631.357459
	-0.0000000338	20628.699506	36.0964596388
5	20631.357459	-0.0000000338	20628.699506
	0.0000000002	20628.717540	2.6399184217
6	20628.699506	0.0000000002	20628.717540
	-0.0000000000	20628.717531	0.0180249910
7	20628.717540	-0.0000000000	20628.717531
	-0.0000000000	20628.717531	0.0000090133

Therefore, Rb = 20628.7175311511 ohm