

Console

n	xn Xn+1	f(xn) Error	f1(xn)
0	10.0000000000 11.8400000000	552.0000000000 1.8400000000	-300.0000000000
1	11.8400000000 11.8614926691	6.2295040000 0.0214926691	-289.8432000000
2	11.8614926691 11.8615015081	0.0025598085 0.0000088390	-289.6045351282
3	11.8615015081 11.8615015081	0.0000000004 0.0000000000	-289.6044364058

Thus the ball is submerged upto height of 11.8615015081 cm