iteration (n)	a_n	a_n+1	f(a)
0	3	4.8	-8.966909834
1	4.8	4.056084055	6.316379052
2	4.056084055	4.595170375	-8.966909834
3	4.595170375	4.813370669	6.316379052
4	4.813370669	4.682285321	-16.62393093
5	4.682285321	4.692756671	-4.789925709
6	4.692756671	4.694107323	7.207593025
7	4.694107323	4.694091111	-0.625741879
8	4.694091111	4.694091133	-0.071490351
9	4.694091133		0.000868508

a_n+1 - a_n
1.8
-0.743915945
0.53908632
0.218200294
-0.131085348
0.01047135
1.35E-03
-1.62116E-05
2.20227E-08

interval
3-4.8