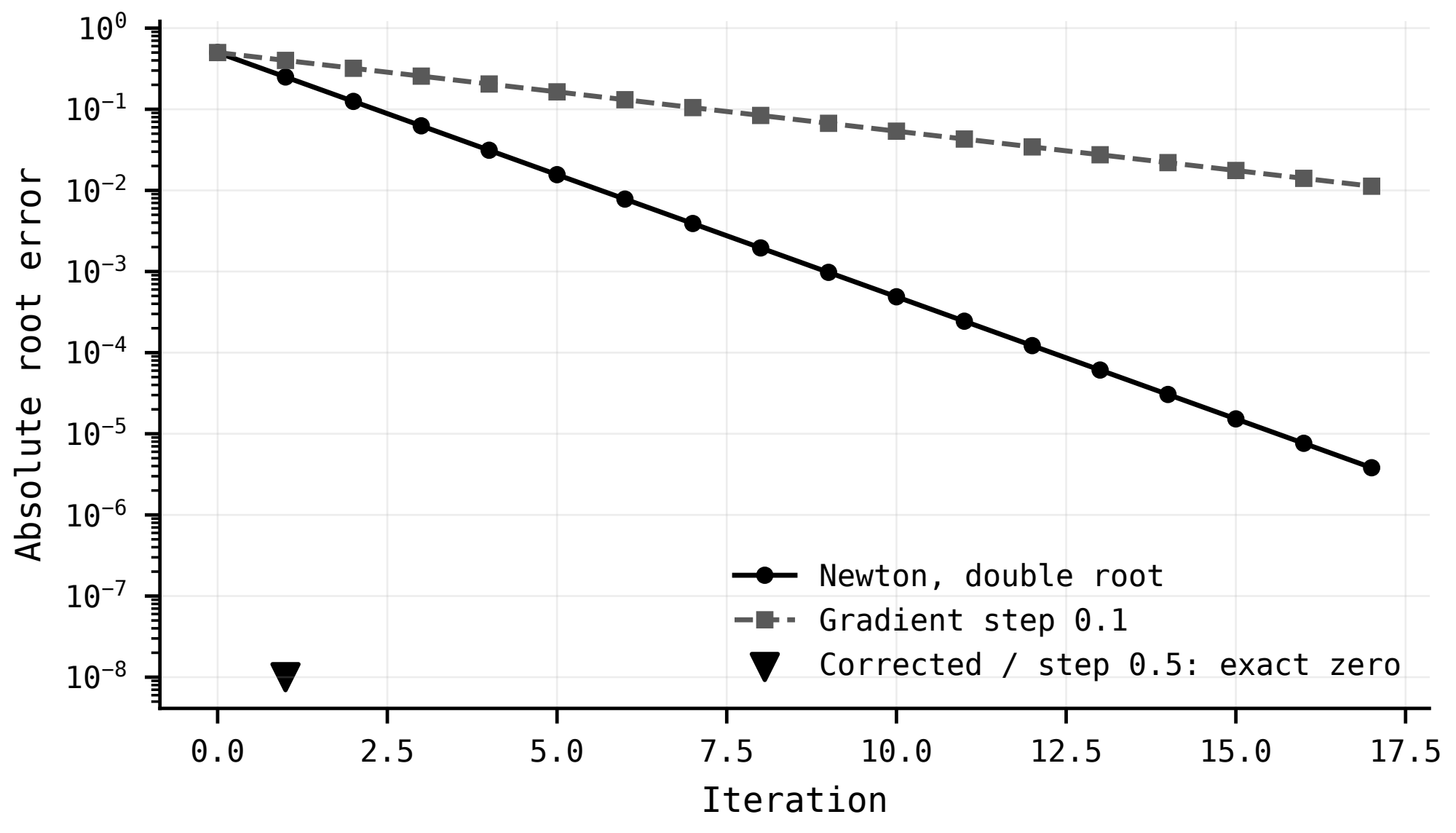

Absolute root error
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Iteration
Newton, double root
Gradient step 0.1
Corrected / step 0.5: exact zero