

### Assignment 3 c)

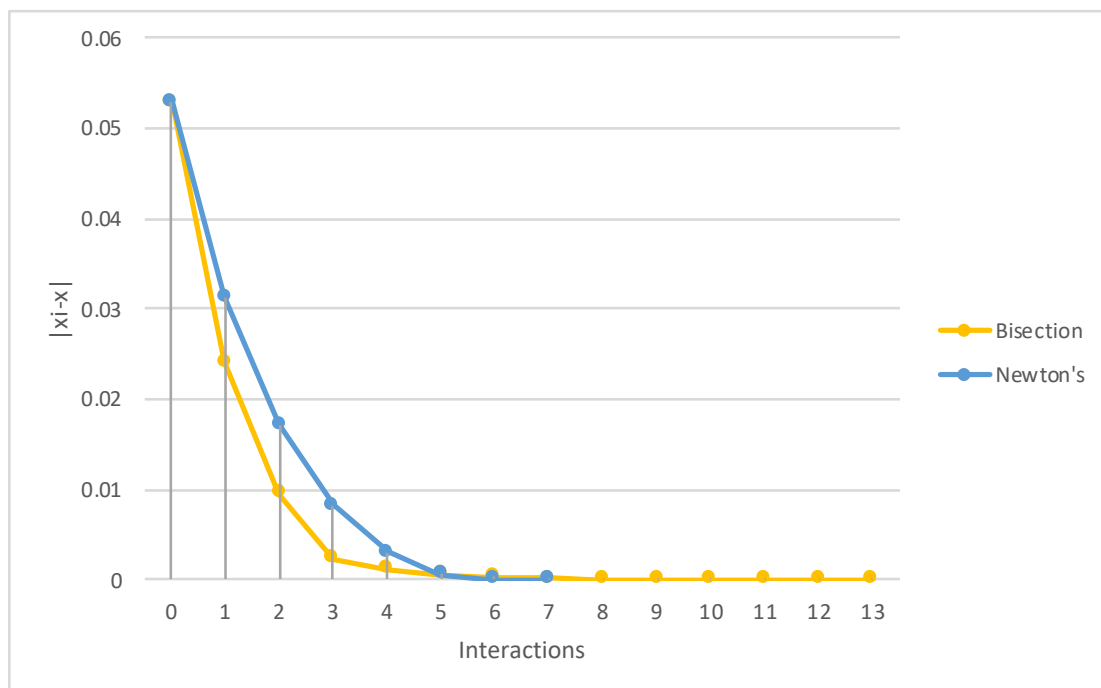


Figure 1. Line plot for bisection method and Newton's method

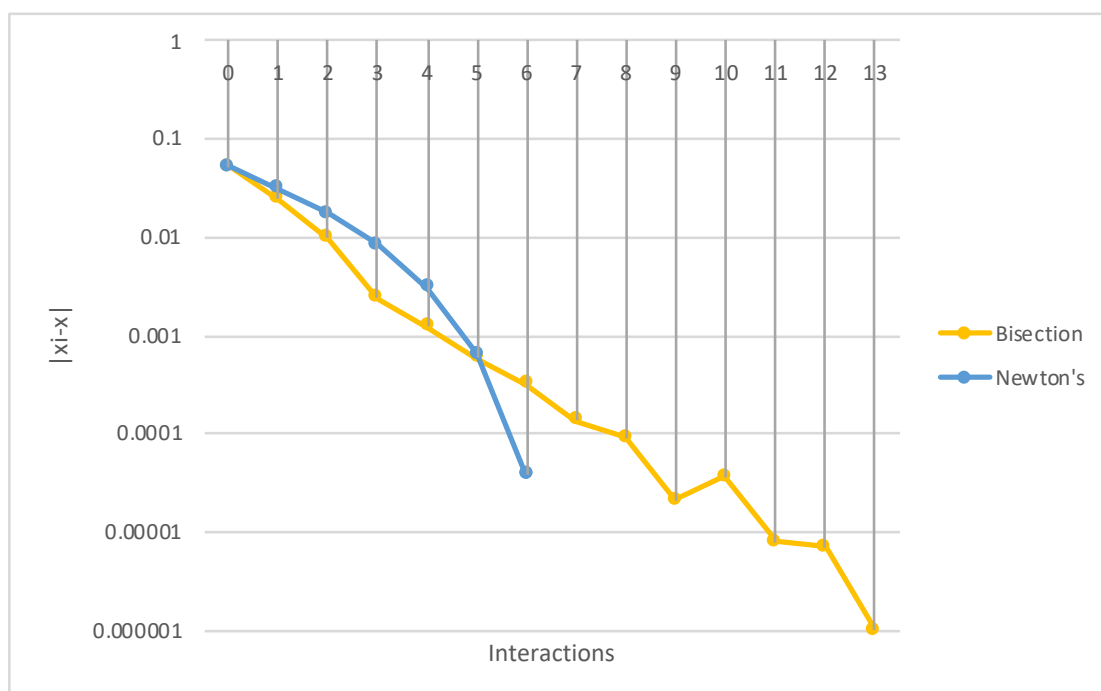


Figure 2. Line plot, using a logarithmic scale for Y

According to Figure 1 and Figure 2, we can come to the conclusion that Newton's method has a significantly faster convergence rate than bisection method. Therefore, there will be a much higher efficiency finding the root of an equation in Newton's method.