Newton’s Root Finding Method

Use  to find the approximation to the solution to

1. Define f(x) in symbol x such that
2. Initial guess is = 1
3. Find the derivative of the function and store it in f’(x)
4. Define the convergence value as to
5. Define tolerance value as
6. Take 10 iterations
7. In every iteration,
   1. Get the f(x) and f’(x) values
   2. Use Newton’s formula
   3. Check for convergence, if converged display the solution
   4. Assign a new value every time
8. Plot the function and the converged point.