MTE204 PRACTICE PROBLEMS, SET #2
Roots of equations

All problems from Chapra and Canale, *Numerical Methods for Engineers*, 7th ed.

It is sufficient to complete 3 iterations for each method by hand. Additional iterations to convergence using software (Matlab, Excel, etc.) are optional.

1.   Problems 5.1, 5.5, 5.14 – graphical and bisection methods

2.   Problems 6.2 a – d), 6.4, 6.11, 6.19 – fixed point, Newton Raphson and secant methods

3.   Problems 8.4, 8.39 – application examples