

Math 170B: Numerical Analysis, Winter quarter, 2006

Homework Assignment 3

Due Wednesday, February 1

1. Determine the multiplicity of zero of $p = 1$ of $f(x)$ with
 - (a) $f(x) = \ln x$;
 - (b) $f(x) = (x - 1)^2 \ln x$.
2. Solve Problem 10 of Exercise Set 2.4.
3. Solve Problem 13 of Exercise Set 2.4.
4. Solve Problem 1, Part (a) and Part (b), of Exercise Set 2.5. Use a calculator but not Matlab.
5. Solve Problem 2 of Exercise Set 2.5.
6. Solve Problem 4 of Exercise Set 2.5. Use a calculator but not Matlab.
7. Solver Problem 14 of Exercise Set 2.5.