

MTH 351 Fall 2006 – Lab 2

Due: Before class October 23

1. Do the following problems from the book: Sec 3.1: 7, Sec 3.2: 10, Sec 3.3: 5. Run Matlab's built-in routine `fzero` on the above problems and compare.
2. Do the following problems from the book: Sec 3.1: 2, Sec 3.2: 5. Run the secant method and Matlab's built-in routine `fzero` on the above problems and compare.
3. Do problem 8 from Sec 3.5 in the book. Apply the technique described in your answer to *accurately* solve for the root in Problem 10 of Section 3.2.
4. Explain the output of `roots(poly(1:21))`. Hint: Recall Problem 11 from Section 2.3 of the book.