

**Practice Problems 8 - Math 141, Frank Thorne (thornef@mailbox.sc.edu)**

**Instructions:** These problems ask you to graph  $y = f(x)$  for various functions  $f$ . For each, answer the following questions as part of your solution.

- (a) Where are the critical points of  $f$ ?
- (b) Where the local and absolute maxima and minima of  $f$ ?
- (c) Where are the inflection points of  $f$ ?
- (d) Where is  $f$  increasing and decreasing?
- (e) Where is  $f$  concave up and down?

1. Thomas, Ch. 4.4, 9-70.