Name: \_\_\_\_\_

## Math 124 Quiz 6

6 December 2001

**Instructions**: No notes or calculators allowed. Please turn off all cell phones and pagers. Make sure you do both sides of this.

- 1. Let  $f(x) = x^4 4x^3 + 2$ .
  - (a) (4 points) Find the absolute maximum and minimum values of f(x) on the interval [-1,4].

- 1 (continued). f(x) is still  $x^4 4x^3 + 2$ .
- (b) (6 points) Sketch the function f(x), with domain  $-1 \le x \le 4$ . Please label important points in the graph (for example: maxima, minima, critical points, inflection points).