## Math 190 Quiz 2: Friday Oct 9

The quiz is 20 minutes long and has two questions. No calculators or other aids are permitted. Show all of your work for full credit. When asked to compute a limit: If the limit exists find its value. If the limit does not exist but equals  $\pm \infty$  say so. Otherwise explain why the limit does not exist.

## Questions:

- 1. Compute the following limits
  - (a)  $\lim_{x \to 4} 2x^2 7x 4$
  - (b)  $\lim_{x \to 4} \frac{2x^2 7x 4}{x 4}$
- 2. Compute  $\lim_{x\to 3} f(x)$  where

$$f(x) = \begin{cases} -x^2 + 4, & x \le 3\\ \sqrt{x - 3}, & x > 3 \end{cases}.$$