Math 165 (Chris Kurth)
Spring 2008
Quiz 2

Show all work. Answers without work will not receive credit. If a limit is infinite, state which infinity.

1. (6 points) Evaluate:
$$\lim_{x\to 0} \frac{\tan 4x}{\sin 3x}.$$

2. (8 points) Evaluate (If a limit is infinite, state which infinity):

   (a)
$$\lim_{x\to 2^-} \frac{x^2+2x-8}{x^2-4}$$

   (b)
$$\lim_{x\to -2^-} \frac{x^2+2x-8}{x^2-4}$$

3. (6 points) Evaluate:
$$\lim_{x\to \infty} \frac{3x^2+2}{x^2-8x+15}$$