Math 150A, Fall 2007, Section 11
Quiz 2

Name:

Show your work. No work, no credit.

1. Evaluate $\lim_{x \to 2^+} \dfrac{|2-x|}{8-4x}$.

2. Determine the following infinite limit: $\lim_{x \to -3^-} \dfrac{2x}{x+3}$.

3. True or false: The line $x = 2$ is a vertical asymptote to the curve $y = \dfrac{x^2+x-6}{x-2}$.

4. Evaluate $\lim_{x \to 7} \dfrac{\sqrt{x+2} - 3}{x - 7}$.

5. Evaluate $\lim_{x \to 0} \left(\dfrac{1}{x} - \dfrac{1}{x^2 + x} \right)$.

6. (*Optional*) Evaluate $\lim_{x \to 1} \dfrac{\sqrt{x} - x^2}{1 - \sqrt{x}}$.

Pledged

Honor code: I have neither given nor received help on this quiz.