

Math 150A, Fall 2007, Section 18
Quiz 2

Name:

Show your work. No work, no credit.

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

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

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

4. Evaluate $\lim_{x \rightarrow 7} \frac{\sqrt{x+2} - 3}{x - 7}$.

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

6. (Optional) Evaluate $\lim_{x \rightarrow 1} \frac{\sqrt{x} - x^2}{1 - \sqrt{x}}$.

Pledged

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