

Math 150A, Section 2, Spring 2007  
Quiz 2

**Name:**

Show your work. No work, no credit.

Find the following limits, if they exist:

1.  $\lim_{x \rightarrow 3} \frac{2x - 6}{x + 2}$

2.  $\lim_{x \rightarrow 1} [(x + 1)^2 - (|x| - 1)^2]$

3.  $\lim_{t \rightarrow 3} \frac{t^2 + 4t - 21}{t - 3}$

4.  $\lim_{t \rightarrow 0} \left( \frac{1}{t} - \frac{1}{t^2 + t} \right)$

5.  $\lim_{h \rightarrow 0} \frac{\sqrt{1+h} - 1}{h}$

Pledged

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