

- To use this as a practice quiz, you should have studied the problem banks in advance.
- Put away all material and set a timer for 10 minutes. (You will have 10 minutes for this quiz in class.)
- Go to your math mentors study hours to check your answers.

Practice Quiz: Limits, Fall 2017

Version: 2

Name (Print): \_\_\_\_\_ RIN: \_\_\_\_\_

Math Mentor Name: \_\_\_\_\_

**Rules:** Notes, calculators, cell phones and headphones are not allowed.

**Honor Code Pledge:** I did not violate any rules on this quiz and have no knowledge of any other student violating rules on this quiz. \_\_\_\_\_ (Signature)

**Instructions:** Put your final answer in the box shown. No partial credit will be given and nothing outside the box will be graded.

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1. Evaluate the limit  $\lim_{t \rightarrow 0} \frac{(t+6)^2 - 36}{t}$ . Express your answer in simplified form.

2. Evaluate the limit  $\lim_{x \rightarrow 25} \frac{25-x}{5-\sqrt{x}}$ . Express your answer in simplified form.

3. Evaluate the limit  $\lim_{x \rightarrow 1} \frac{6x + 2}{2x + 2}$ . Express your answer in simplified form.

4. Find the value of  $\lim_{x \rightarrow 5} \frac{3x^2 - 75}{x - 5}$ . Express your answer in simplified form.

5. Find the value of  $\lim_{x \rightarrow 4} \left( e^{\frac{1}{(7x-28)}} \right)^{(x^2-16)}$ . Express your answer in simplified form.