

Name: _____

Date: _____

Unit 1-HW 8

AP Calculus BC

Evaluate the following limits.

1. $\lim_{x \rightarrow -3} \frac{x^2 - 2x - 15}{x + 3}$

3. $\lim_{x \rightarrow \pi} \frac{\sin x}{x - \pi}$

2. $\lim_{x \rightarrow 2} \frac{\sqrt{2+x} - 2}{x - 2}$

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