## (In)determinate Forms Activity

This activity is about evaluating limits that approach the indeterminate form  $\frac{0}{0}$  algebraically.

**Directions:** This worksheet is to be used in conjunction with the Gradarius Assignment titled "Section 5 Activity". Use Gradarius to help you determine which algebraic steps are allowed and correct. Once you have the solution, write it out on this paper. I will be conducting a group participation quiz during this activity. It will account for 4 of the 20 points. I will collect one paper from each group. Whose paper will be determined randomly.

1 Evaluate 
$$\lim_{x\to 4} \frac{x^2 - 3x - 4}{x^2 - 16}$$
 (4 points)

2 Evaluate 
$$\lim_{x\to 2} \frac{\frac{1}{x+1} - \frac{1}{3}}{x-2}$$
 (4 points)

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3 Evaluate 
$$\lim_{x\to7} \frac{\sqrt{x-3}-2}{x-7}$$
 (4 points)

4 Evaluate 
$$\lim_{x\to 2^-} \frac{x^2+x-1}{x^2-4}$$
 (4 points)