## j++¿ Quizzes

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1 2 3 4 5 1: Find these limits:

1. 
$$\lim_{x \to 3} 3x^2 - 4x$$

2. 
$$\lim_{n \to 6^+} \frac{4}{n-6}$$

$$3. \lim_{x \to \infty} x^2 + \frac{1}{x}$$

Is  $g(x) = \frac{x^2 - 4x + 4}{x - 2}$  continuous at x = 3? What about x = 2? Explain (prove) your answer for each.

12345 **2**: Find the equation of a line tangent to  $y = 3x^2 - x + 1$  at x = 2. Use the limit definition of a derivative to find the line's slope.