Quiz 2A, Business Calculus

Fall 2012

Name: _____

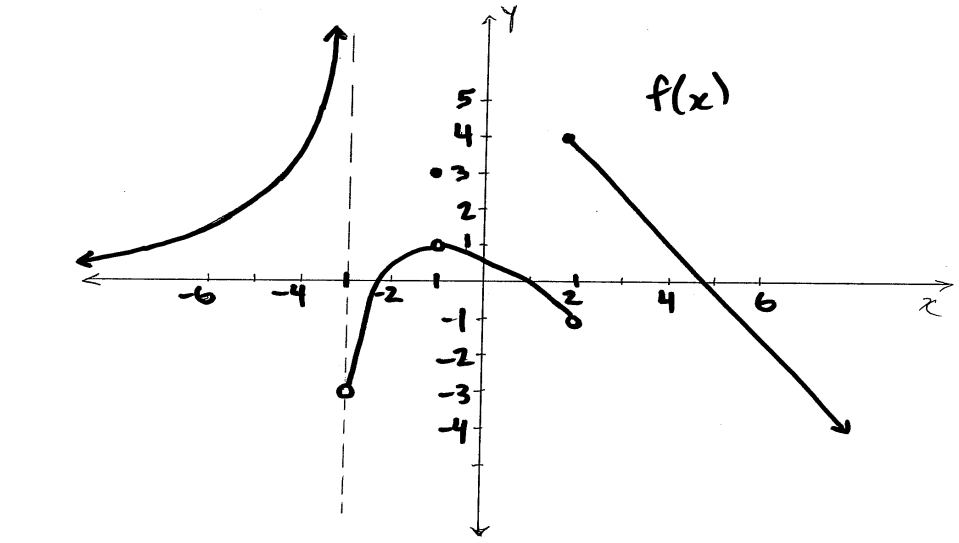
1. (4 points) Ellie wants to have a rectangular garden in her backyard with an area of 300 ft^2, and she wants to put a fence around it. Let x be the width of the garden. Write an equation (in terms of x) for the amount of fencing she will need to go around the perimeter of the garden.

2. (4 points) Find the limits.

(a) $\lim_{x \to 3} \dfrac{x^2 + x - 12}{x^2 - 5x + 6}$

(b) $\lim_{x \to 0} \dfrac{x + 7}{x^2}$

3. (2 points) Find the limits for the given graph. If the limit does not exist, write DNE.



(a) $\lim_{x \to (-3)^+} f(x) =$ (b) $\lim_{x \to (-3)^-} f(x) =$ (c) $\lim_{x \to (-3)} f(x) =$