

Name: Richard

September 5, 2012

I'm in the Thurs11 Thurs12 Thurs1 or Fri10 recitation. (Circle one)

MATH 200 - QUIZ 2

1. (1 point) $\lim_{x \rightarrow 5} \sqrt{x} = \boxed{\sqrt{5}}$

2. (1 point) $\lim_{t \rightarrow 8} t = \boxed{8}$

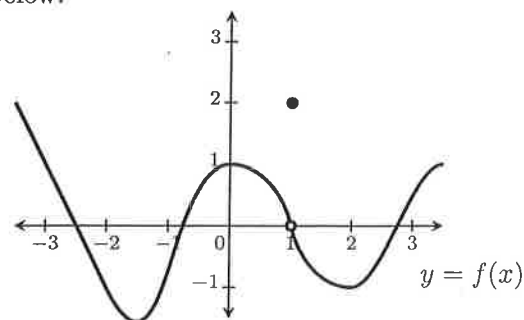
3. (4 points) $\lim_{x \rightarrow -2} \frac{-2x - 4}{x^3 + 2x^2} = \lim_{x \rightarrow -2} \frac{-2(x+2)}{x^2(x+2)} = \lim_{x \rightarrow -2} \frac{-2}{x^2} = \frac{-2}{(-2)^2} = -\frac{2}{4} = \boxed{-\frac{1}{2}}$

4. (6 points) Supply the following information for the function graphed below.

(a) $\lim_{x \rightarrow 0} f(x) = \boxed{1}$

(b) $\lim_{x \rightarrow 1} f(x) = \boxed{0}$

(c) $f(1) = \boxed{2}$



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1. (1 point) $\lim_{x \rightarrow 5} \sqrt{x} = \boxed{\sqrt{2}}$

2. (1 point) $\lim_{t \rightarrow 2} t = \boxed{2}$

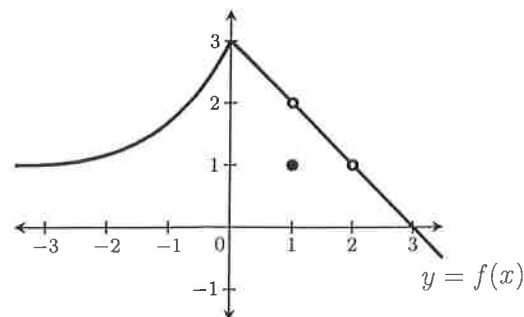
3. (4 points) $\lim_{x \rightarrow 9} \frac{\sqrt{x} - 3}{x - 9} = \lim_{x \rightarrow 9} \frac{\sqrt{x} - 3}{(\sqrt{x} - 3)(\sqrt{x} + 3)} = \lim_{x \rightarrow 9} \frac{1}{\sqrt{x} + 3} = \frac{1}{\sqrt{9} + 3} = \boxed{\frac{1}{6}}$

4. (6 points) Supply the following information for the function graphed below.

(a) $\lim_{x \rightarrow 0} f(x) = \boxed{3}$

(b) $\lim_{x \rightarrow 1} f(x) = \boxed{2}$

(c) $f(1) = \boxed{1}$



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1. (1 point) $\lim_{x \rightarrow 5} \sqrt{3} = \boxed{\sqrt{3}}$

2. (1 point) $\lim_{t \rightarrow 15} t = \boxed{15}$

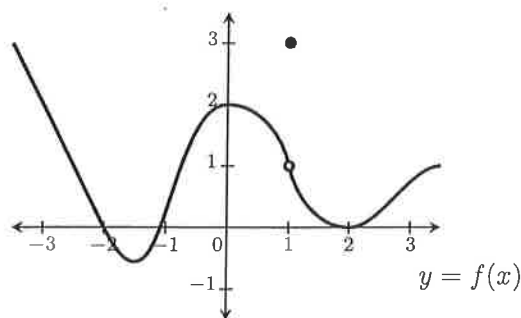
3. (4 points) $\lim_{x \rightarrow 1} \frac{\frac{1}{x} - 1}{x - 1} = \lim_{x \rightarrow 1} \frac{\frac{1-x}{x}}{x-1} = \lim_{x \rightarrow 1} \frac{1-x}{x} \cdot \frac{1}{x-1} = \lim_{x \rightarrow 1} \frac{-1}{x} = \frac{-1}{1} = \boxed{-1}$

4. (6 points) Supply the following information for the function graphed below.

(a) $\lim_{x \rightarrow 2} f(x) = \boxed{0}$

(b) $\lim_{x \rightarrow 1} f(x) = \boxed{1}$

(c) $f(1) = \boxed{3}$



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1. (1 point) $\lim_{x \rightarrow 5} \sqrt{7} = \boxed{\sqrt{7}}$

2. (1 point) $\lim_{t \rightarrow 6} t = \boxed{6}$

3. (4 points) $\lim_{x \rightarrow 1} \frac{x^2 + x - 2}{x^2 - 1} = \lim_{x \rightarrow 1} \frac{(x-1)(x+2)}{(x+1)(x-1)} = \lim_{x \rightarrow 1} \frac{x+2}{x+1} = \frac{1+2}{1+1} = \boxed{\frac{3}{2}}$

4. (6 points) Supply the following information for the function graphed below.

(a) $\lim_{x \rightarrow 0} f(x) = \boxed{2}$

(b) $\lim_{x \rightarrow 1} f(x) = \boxed{1}$

(c) $f(1) = \boxed{0}$

