

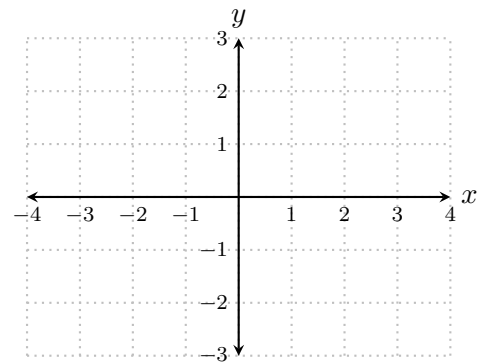
Name: _____

February 5, 2015

1. $\lim_{x \rightarrow 0} \cos\left(\frac{\pi}{\sqrt{19 - 3 \sec(2x)}}\right) =$

2. Draw the graph $y = f(x)$ of a function that meets the following conditions.

- (a) $f(x)$ is continuous everywhere except at $x = 1$ and $x = 2$.
- (b) $f(3) = 1$
- (c) $\lim_{x \rightarrow 1} f(x) = -1$
- (d) $\lim_{x \rightarrow 2^-} f(x) = 1$
- (e) $\lim_{x \rightarrow 2^+} f(x) = 2$



Name: _____

February 5, 2015

1. $\lim_{x \rightarrow \pi} \sin(x - \sin(x)) =$

2. Draw the graph $y = f(x)$ of a function that meets the following conditions.

- (a) $f(x)$ is continuous everywhere except at $x = -1$ and $x = 1$.
- (b) $f(3) = 2$
- (c) $\lim_{x \rightarrow -1} f(x) = 2$
- (d) $\lim_{x \rightarrow 1^-} f(x) = 1$
- (e) $\lim_{x \rightarrow 1^+} f(x) = -1$

