

## Quiz, January 31

1. When is the first exam?

2. Compute  $\lim_{x \rightarrow 1} \frac{\sqrt{x} - 1}{x - 1}$ .

3.  $\lim_{x \rightarrow 2} \frac{x^2 - 4x + 4}{|x - 2|} = ?$

Which of the following is the best answer, and why?

(a)  $+\infty$       (b)  $-\infty$       (c) 0      (d) does not exist

4. Use the graph of  $f$  below to find a positive number  $\delta$  such that  
if  $|x - 1| < \delta$ , then  $|f(x)| < 0.1$ .

