PRINT your name_

Quiz for January 27, 2009 - 8:00 section

Remove everything from your desk except this page and a pencil or pen.

Circle your answer. Show your work. Each question is worth 5 points.

1. Solve for x: $\log_{10}(\sqrt{x}) = -1$.

Answer: The given equation is equivalent to $10^{-1} = \sqrt{x}$, which is the same as

 $\frac{1}{10} = \sqrt{x}$. Square both sides to obtain $\left| \frac{1}{100} = x \right|$.

- 2. Sketch a possible graph for a function f with all of the specified properties.
 - (i) the domain of f is [-1, 1].
- (ii) f(-1) = f(0) = f(1) = 0. (iii) $\lim_{x \to -1^+} f(x) = \lim_{x \to 0} f(x) = \lim_{x \to 1^-} f(x) = 1$.

