Quiz: 13

Present neatly on separate paper. Justify for full credit. No Calculators.

Name \_\_\_\_\_ Score \_\_\_\_  $\sim$ 10 minutes 1. Use the definition of the derivative to find a slope-measuring rule

for the function  $y = \sqrt{9-4x}$ . [5 points]

2.

Suppose that  $f(x) = \begin{cases} x^2 - 1, & x \le 1 \\ k(x - 1), & x > 1. \end{cases}$ For what values of k is f

- (a) continuous?
- (b) differentiable?

[5 points]