

NAME:

SECTION: (circle one) 11:00-11:55 12:05-1:00

Math 105 - Quiz 2 - September 19, 2005

Instructions: Show all of your work and circle your final answers. Calculators are allowed, but notes and books are not.

1. (8 points) Suppose f is a function with $f(0) = 2$ and $f'(x) \leq 4$ for all x . What can be said about $f(3)$?

2. The graph of g' (not g) is given to the right. Be sure to justify all answers for full credit!

- (a) (3 points) On which intervals is g decreasing?
(b) (3 points) Where does g have stationary points?
(c) (3 points) Where does g have local minimum points?
(d) (3 points) Is g concave up at $x = 6$? Why or why not?

