Quiz 5

Name: _____

Instructions: Answer the following questions.

1. (4 pts) For a particular function f(x), we know only that f(0) = 7 and that the graph of f'(x) is



Use this information to estimate the value of f(.1). Be sure to show your work.

2. (3 pts) For a paricular function f(x), the graph of f'(x) is:



Which of the following 4 graphs could be the graph of f(x)? Why?



3. (3 pts) For a paricular function f(x), the graph of f'(x) is:



Which of the following 4 graphs could be the graph of $\frac{d}{dx} [f'(x)]$? Why?



Bonus (1 pt) Show that $\frac{d}{dx}[ax^2 + bx + c] = 2ax + b.$