

Name \_\_\_\_\_

Lab Section: \_\_\_\_\_

## MATC 1200, Calculus for Business and Social Sciences

### Lab 4 The Derivative: Week of April 20, 2009

#### Pre-Lab Question

1. In the following list of **6** expressions, circle the **3** expressions which are interpretations of the derivative.

- the slope of the tangent line at a point
- the average rate of change
- the limit of the difference quotient as  $h$  approaches 0
- $\frac{f(x+h) - f(x)}{h}$
- the slope of the secant line between two points
- instantaneous rate of change