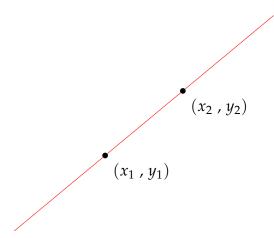
Learning Assigment #3

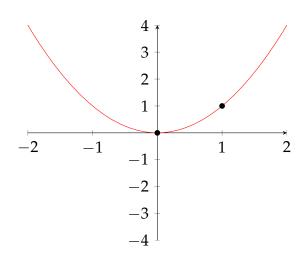
Name			

1. Suppose a line passes through the points (x_1, y_1) and (x_2, y_2) , as shown below:



What is the slope of this line?

2. Let f(x) be the function given by the graph below:



(1.a) Use a rule to draw the tangent line to the graph of the function at the point (1,1). Find the slope of this line (Hint: You need to find two points this line goes through. Then you need to use the slope formula you wrote down above).

(1.b) Use a ruler to draw the tangent line to the graph of the function at the point (0,0). Find the slope of this line.

- (1.c) Use a ruler to draw the secant line through the points (0,0) and (1,1). Find the slope of this line.
- (1.d) With the information above, evaluate

$$f(0) =$$

$$f'(0) =$$

$$f(1) =$$

$$f'(1) =$$