

AP Calc Warm Up – 10/26/10

Name: _____ Period: _____

1) Find $f'(x)$ for the following functions:

a. $f(x) = x^2 - 7x + 5$

b. $f(x) = 4x^3 - x^2 + 8x$

c. $f(x) = 3x^{-1}$

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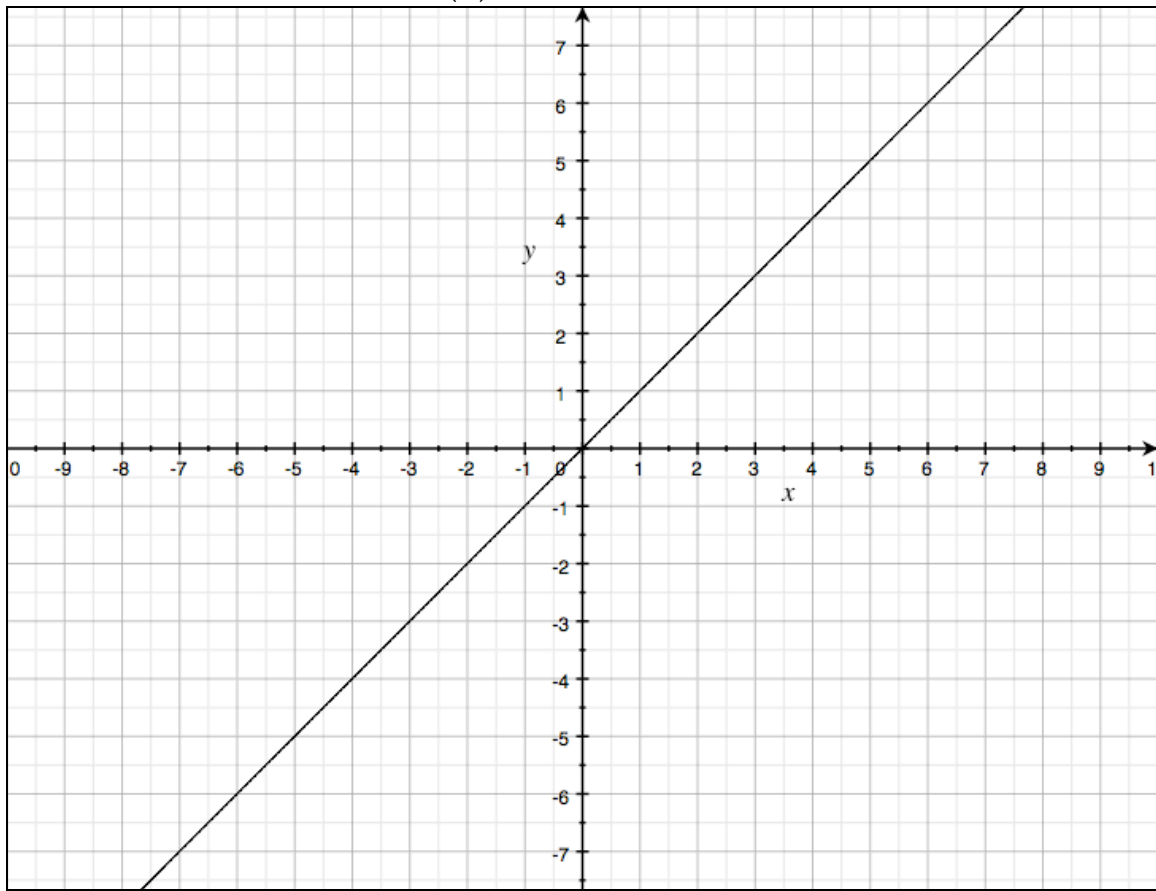
The derivative as function – CONCEPT BUILDER

Name: _____ Date: _____ Period: _____

Concept – Students will be able to sketch a derivative given the graph of a function

Let's connect the slope of a function and its derivative a little more explicitly:

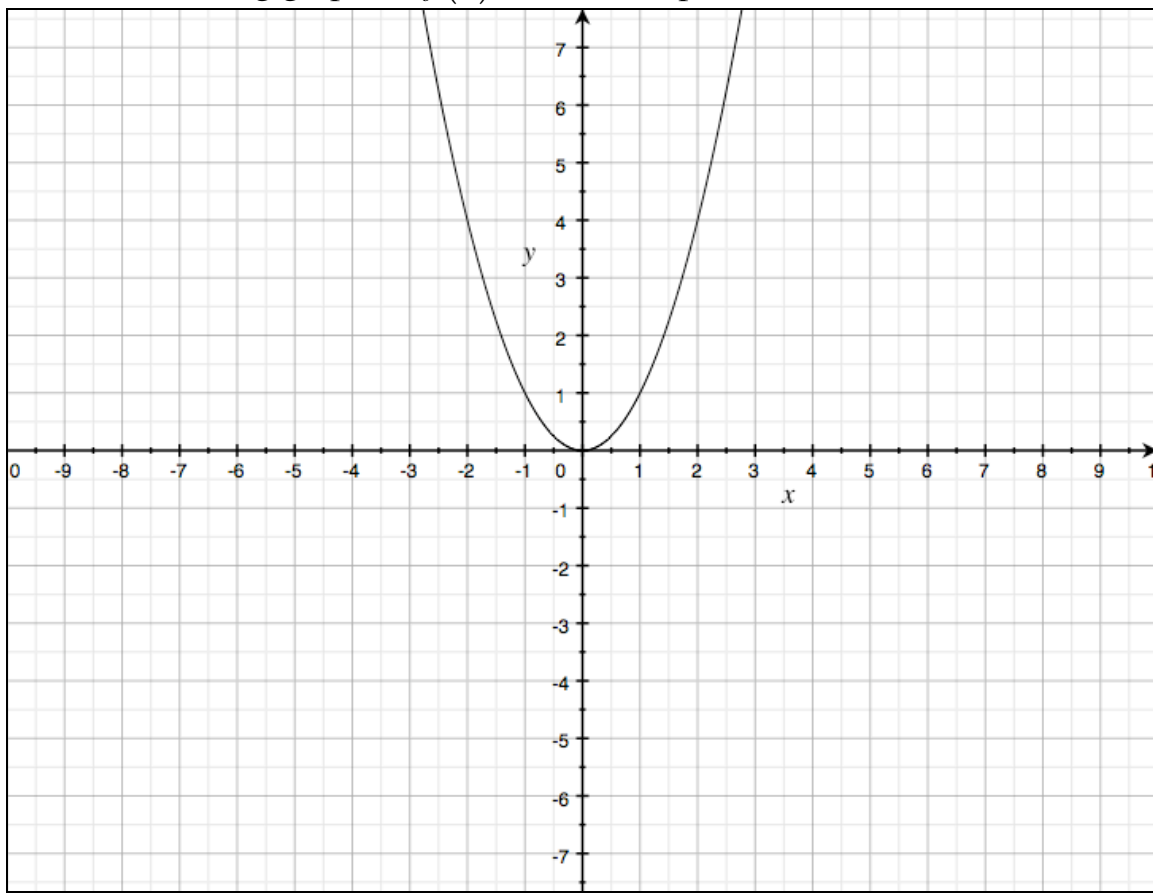
Use the following graph of $f(x) = x$ for the problem.



Find the derivative of $f(x) = x$ and fill in the following table. Graph the points.

x	$f'(x)$
-4	
-3	
-2	
-1	
0	
1	
2	
3	

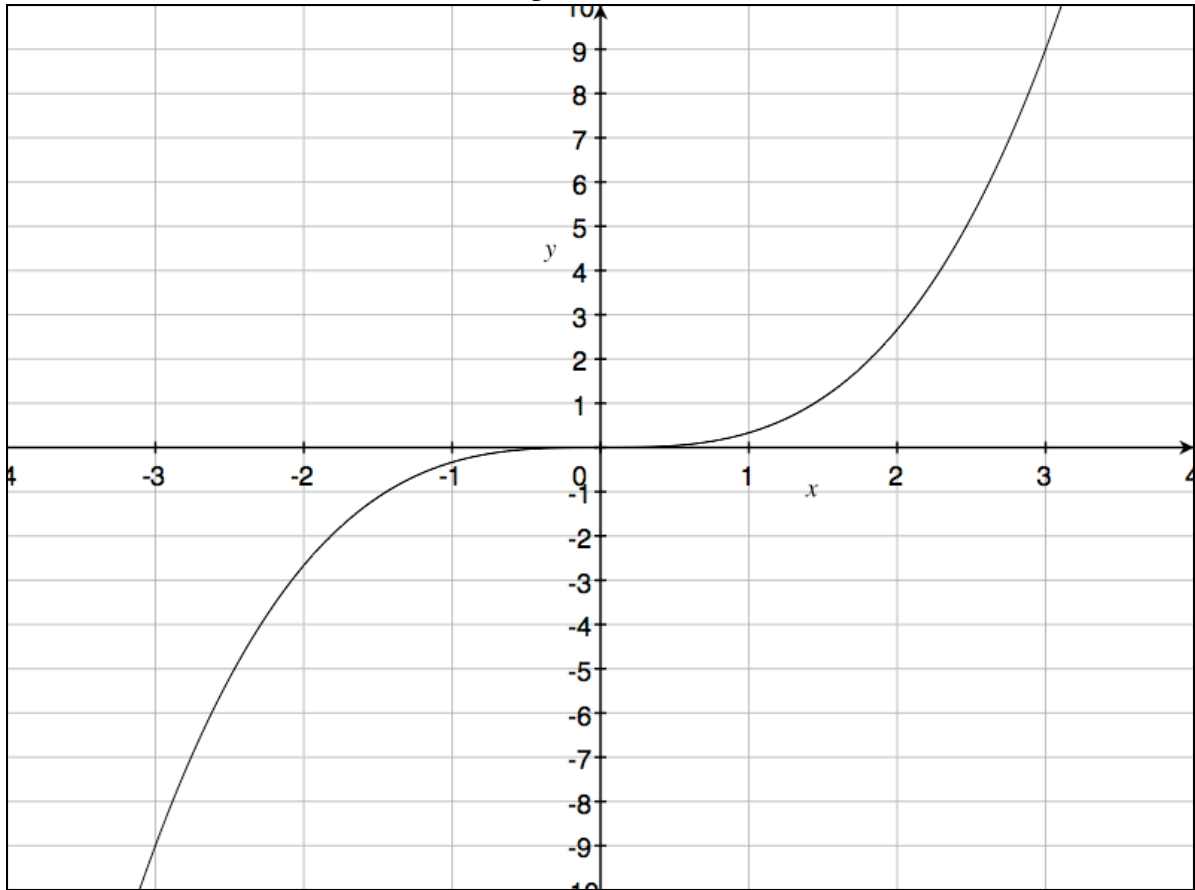
Use the following graph of $f(x) = x^2$ for the problem.



Find the derivative for $f(x) = x^2$ and fill in the following table. Graph the points.

x	$f'(x)$
-4	
-3	
-2	
-1	
0	
1	
2	
3	

Use the following graph of $f(x) = \frac{1}{3}x^3$ for the problem.



Find the derivative of $f(x) = \frac{1}{3}x^3$ and fill in the following table. Graph the points.

x	$f'(x)$
-3	
-2	
-1	
0	
1	
2	
3	

AP Calc – Exit Slip – 10/6/10

Name: _____

Period: _____

- 1) The graph below is of $f(x)$. Sketch the graph of $f'(x)$ on the same axes.

