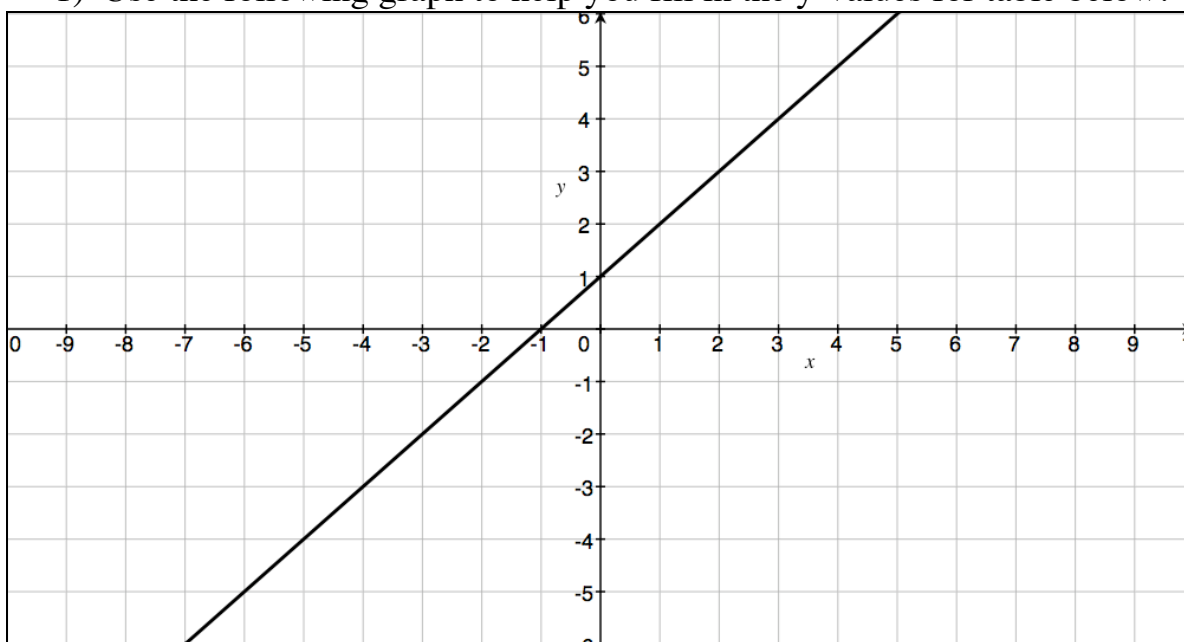


AP Calc Warm Up – 8/23/10

Name: _____

Block: _____

1) Use the following graph to help you fill in the y-values for table below.



x	y
-2	-1
-1	
0	
1	
2	

INCREASING / DECREASING by GRAPH SKILL BUILDER

Name: _____ Date: _____ Period: _____

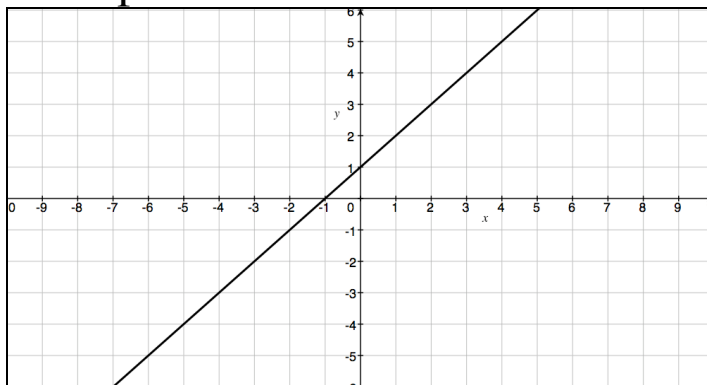
Skill – Students will be able to determine if a function is increasing, decreasing or neither from a graph

Definitions:

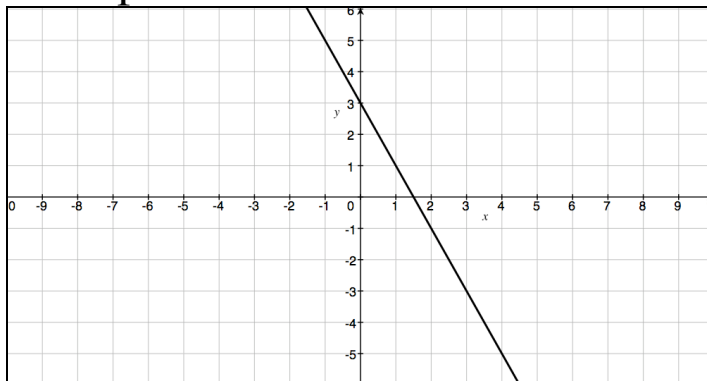
Strictly Increasing –

Strictly Decreasing –

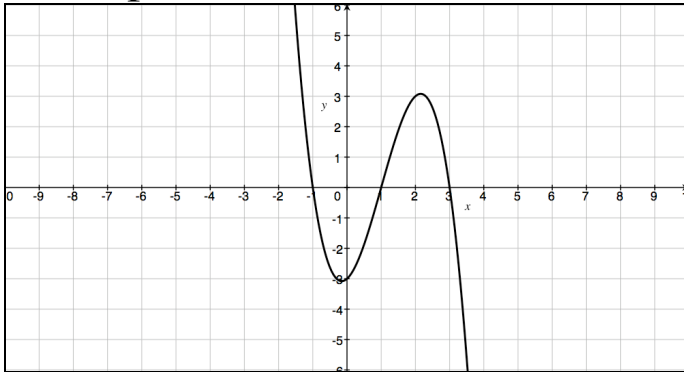
Example 1



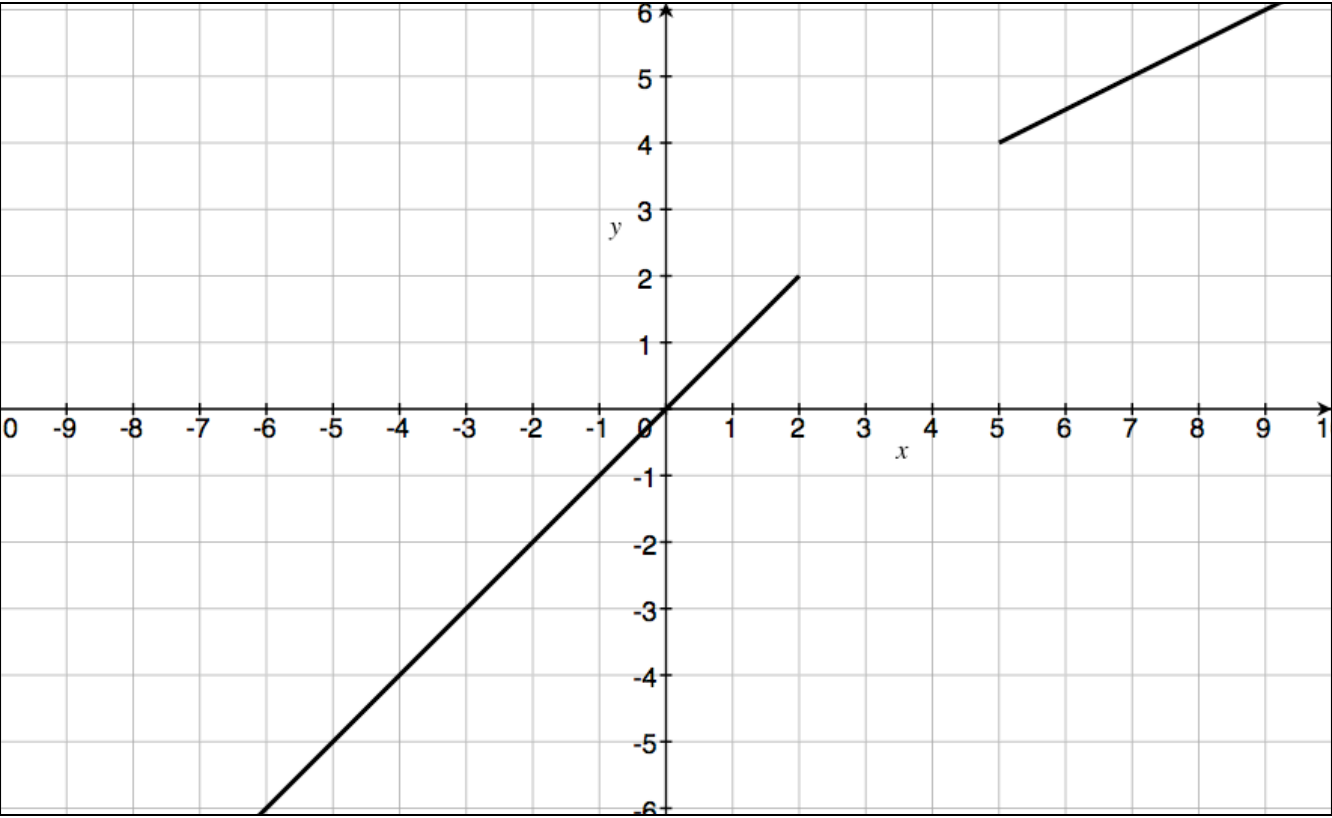
Example 2

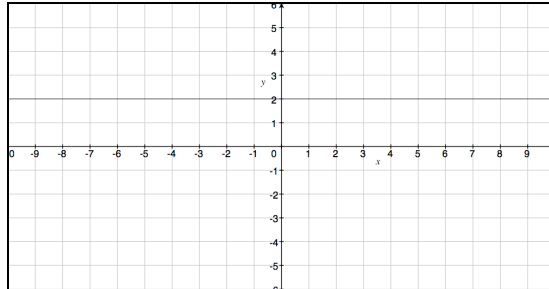
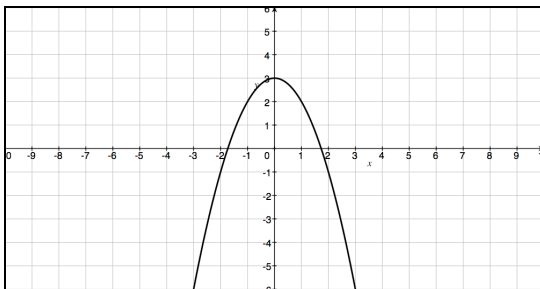
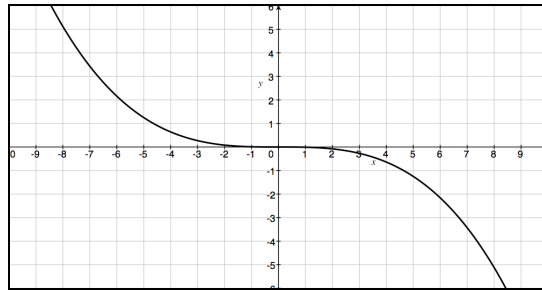
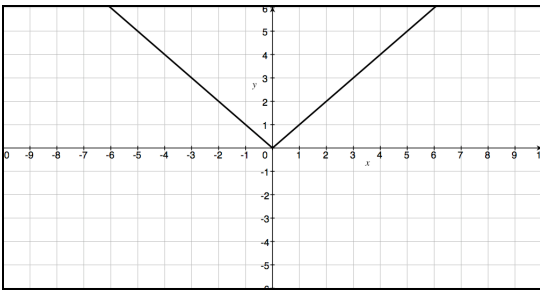
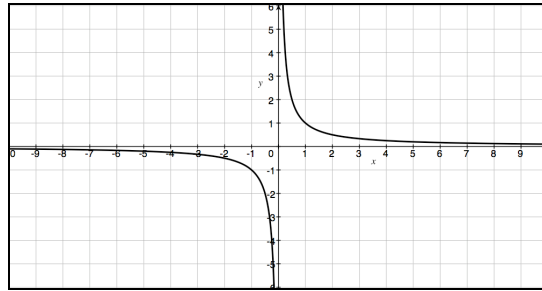
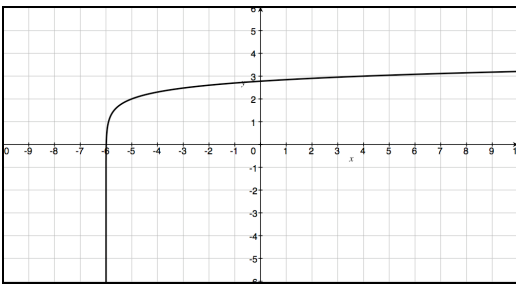
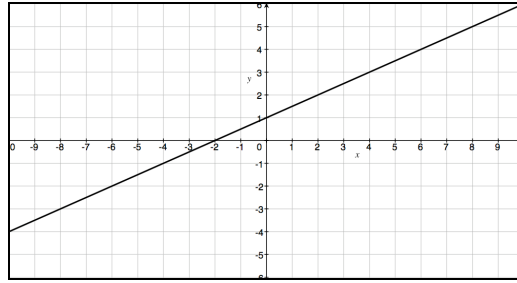
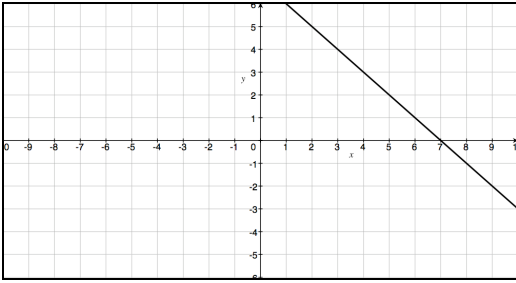
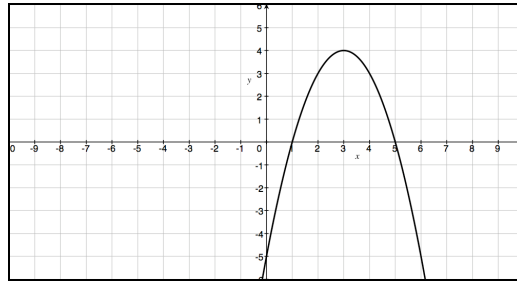
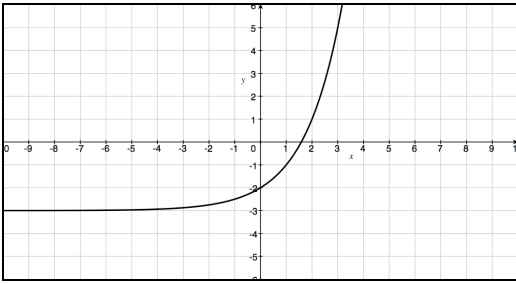


Example 3



How do you determine if a function is increasing or decreasing using a graph?

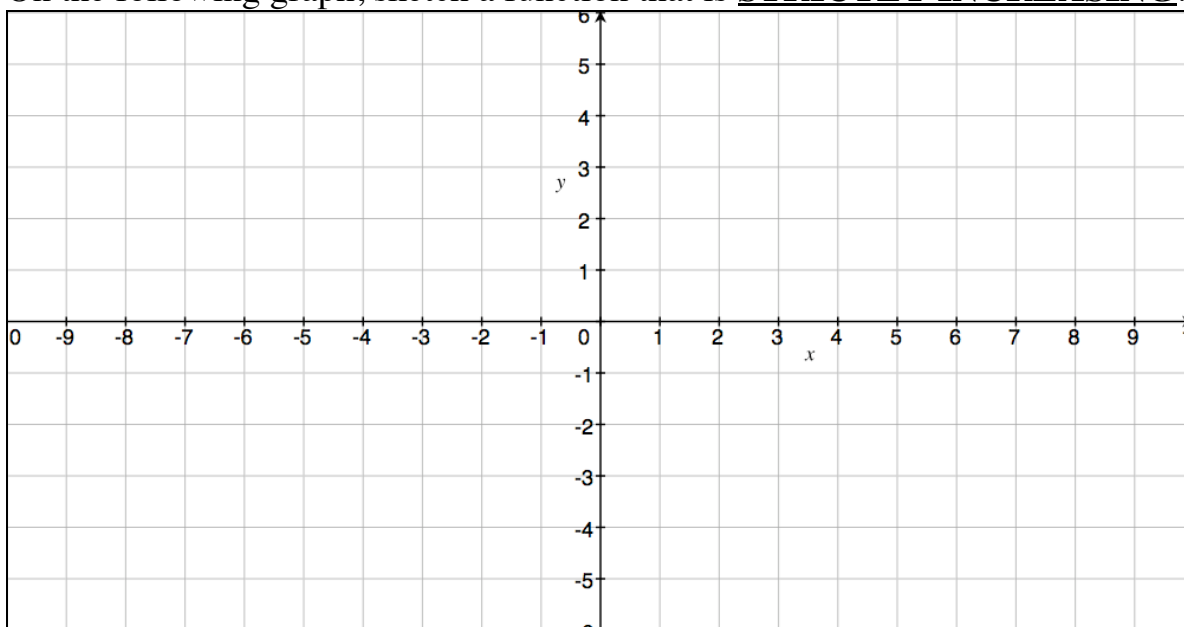




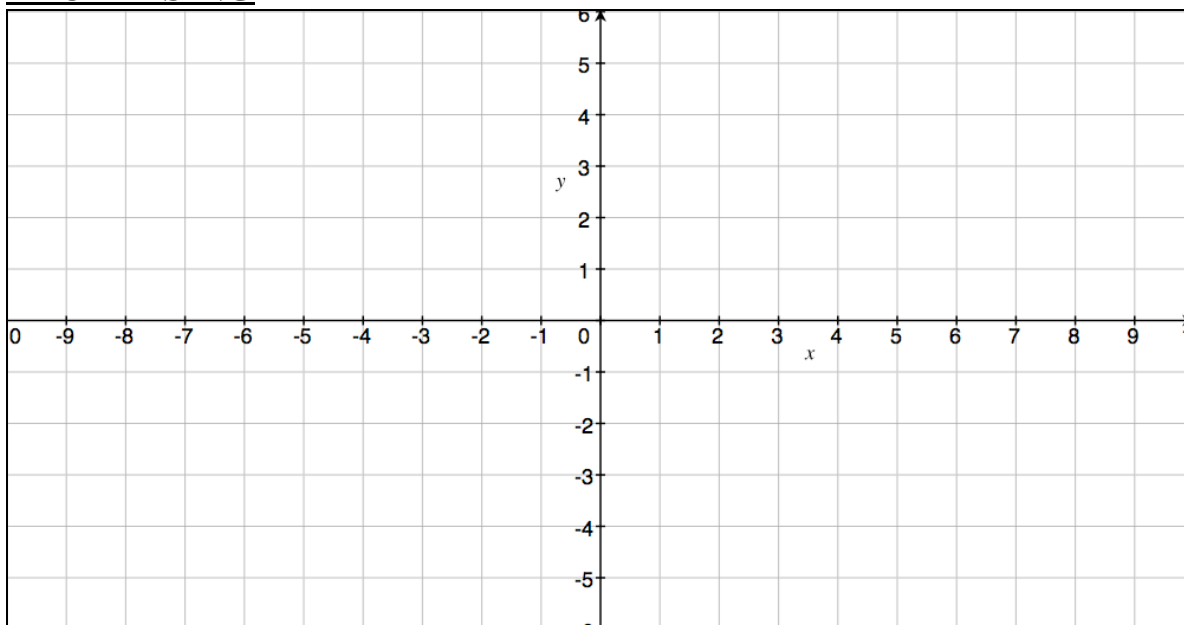
Skill Practice

Directions – Follow the directions above each graph

On the following graph, sketch a function that is **STRICTLY INCREASING**.



On the following graph, sketch a function that is **STRICTLY DECREASING**.

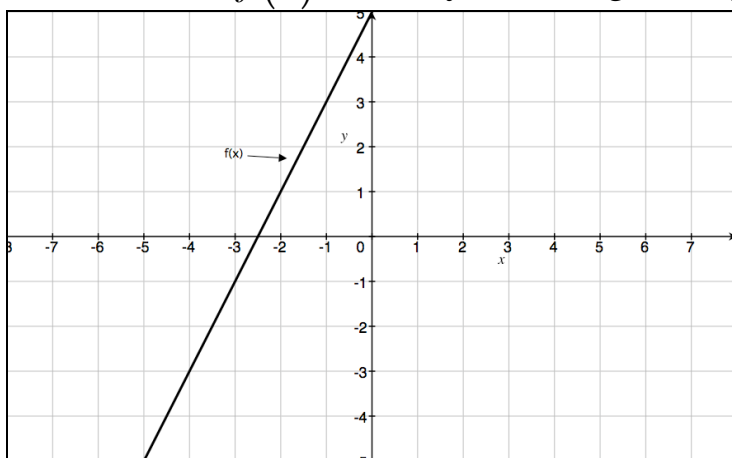


AP Calc – Exit Slip – 8/23/10

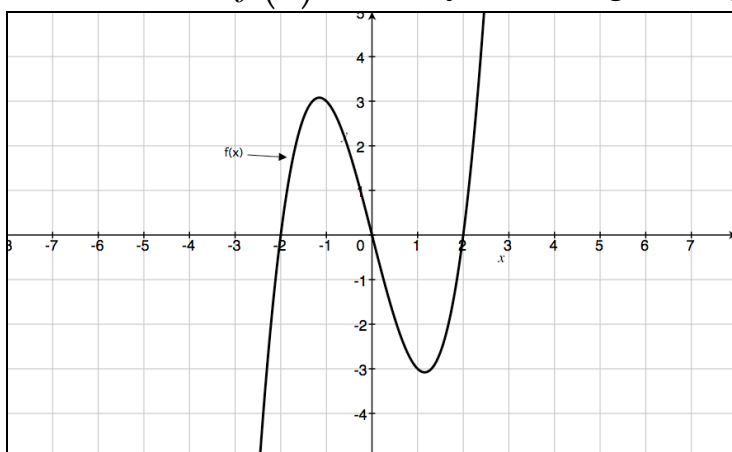
Name: _____

Period: _____

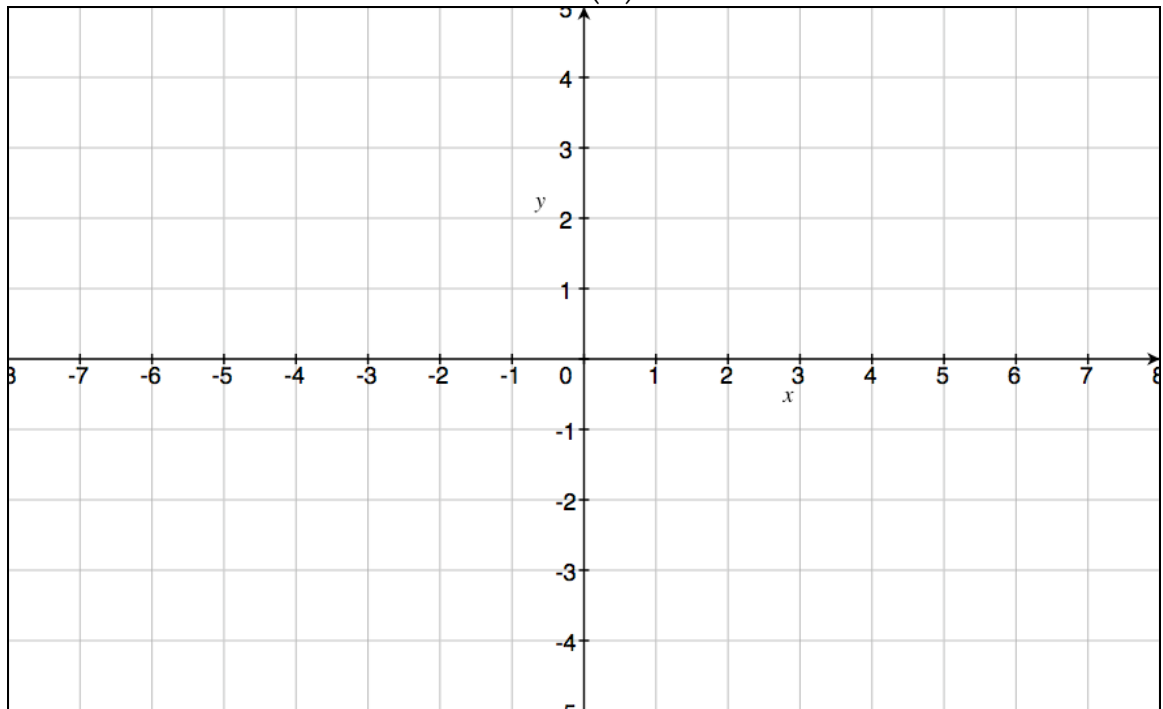
- 1) The graph of the function $f(x)$ is represented by the graph below. State whether $f(x)$ is strictly increasing, strictly decreasing or neither.



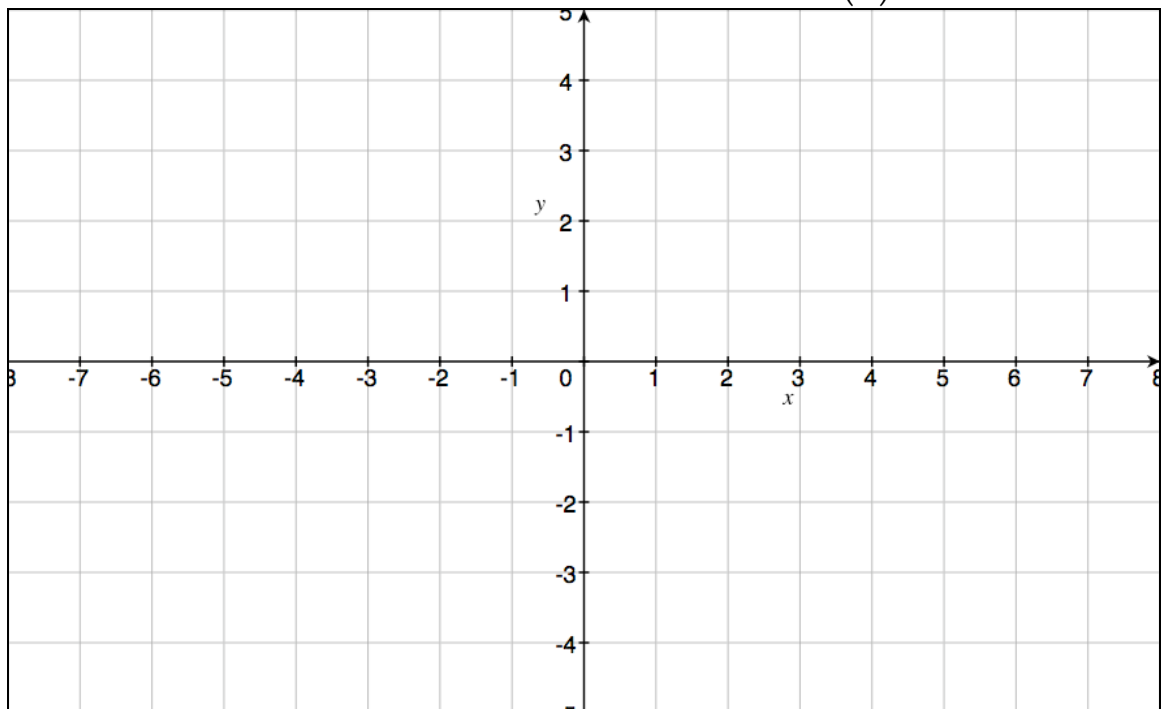
- 2) The graph of the function $f(x)$ is represented by the graph below. State whether $f(x)$ is strictly increasing, strictly decreasing or neither.



- 3) Use the following graph to sketch a function that is strictly DECREASING. Label that function $f(x)$.



- 4) Use the following graph to sketch a function that is neither strictly increasing nor strictly decreasing. Label that function $g(x)$.



PERIOD:

STUDENT #:

AP Calc – Homework – 8/23/10

LAST NAME, FIRST NAME: _____

- 1) Your first assignment is to email me so that I create a class email list and invite you to join the class web site. I prefer that you send the email from your Chavez email address. The information for emailing me is as follows:

a. Email address: alex.monte-sano@chavezschools.org

b. Subject: AP Calculus

The body of your email should contain the following information

c. Home phone #

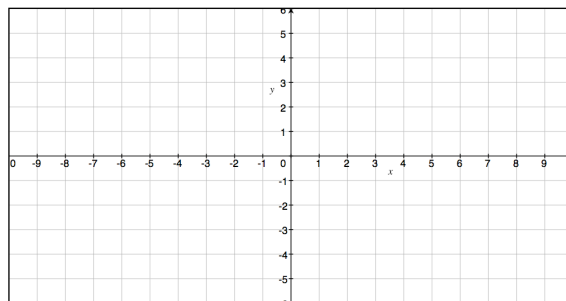
d. Parent/Guardian

e. Parent/Guardian email

f. Something about you that is important for me to know.

You must send your email by tomorrow morning at 8:00 in order to avoid homework hall. If computer access is a problem, please come speak to me at lunch today. Thanks.

- 2) Answer the following question: If the function $f(x)$ is strictly increasing and its graph goes through the point $(3,4)$. Can the graph of $f(x)$ also go through the point $(5,2)$?



Why or why not?
