

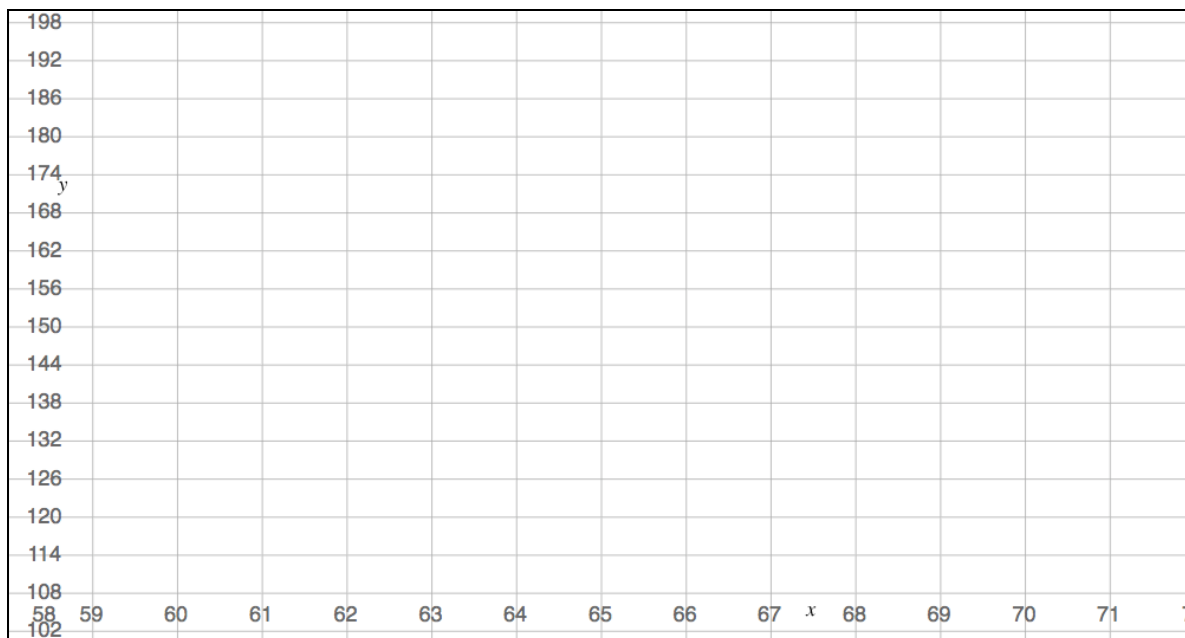
# AP Calc Warm Up – 9/2/10

Name: \_\_\_\_\_

Block: \_\_\_\_\_

1) Sketch a graph that represents the following verbal model.

On average the taller a person is the more they weigh. The average weight for a person who is 60" tall is 120 pounds. For every inch taller a person their weight increases by 6 pounds.



- a. Is the function you sketched strictly increasing, strictly decreasing or neither?

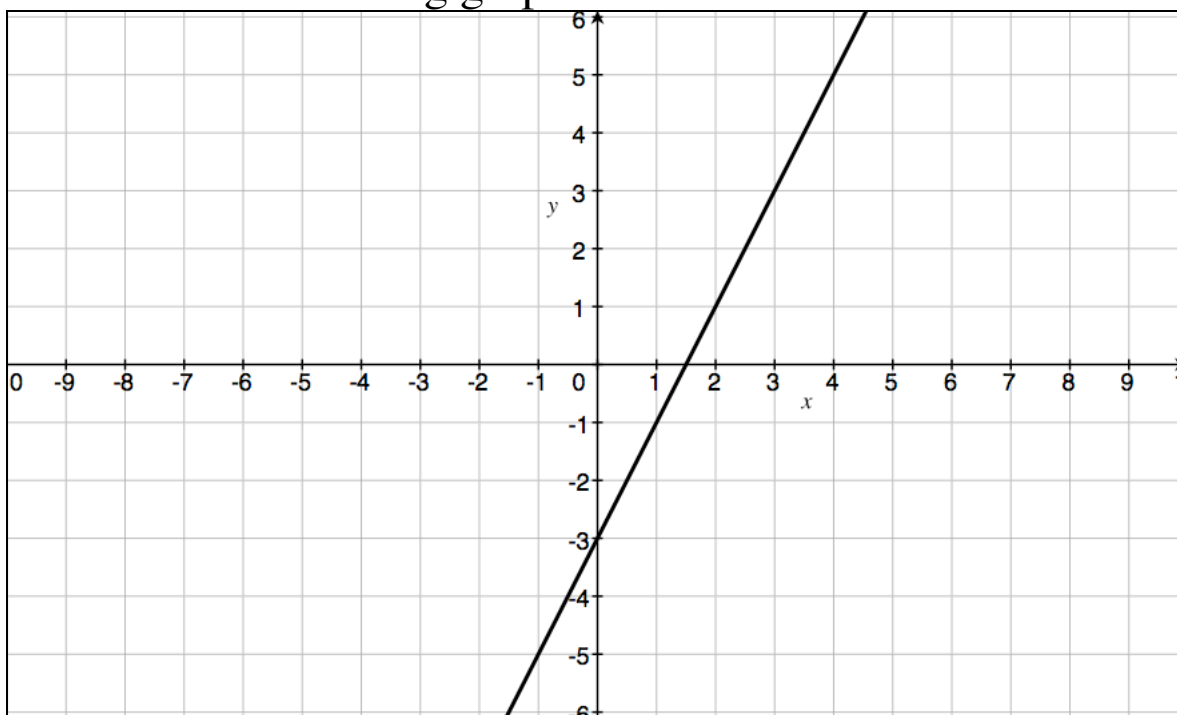
# Equations of Piecewise Functions

## SKILL BUILDER

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

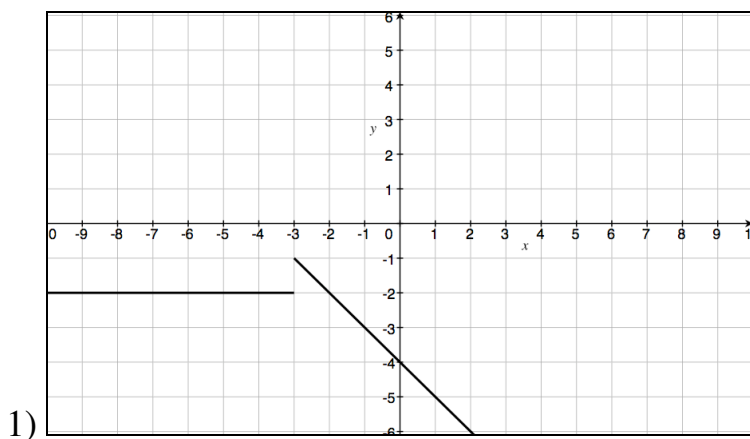
Concept – Students will be able to write the equation of a piecewise function given a graph

Consider the following graph:

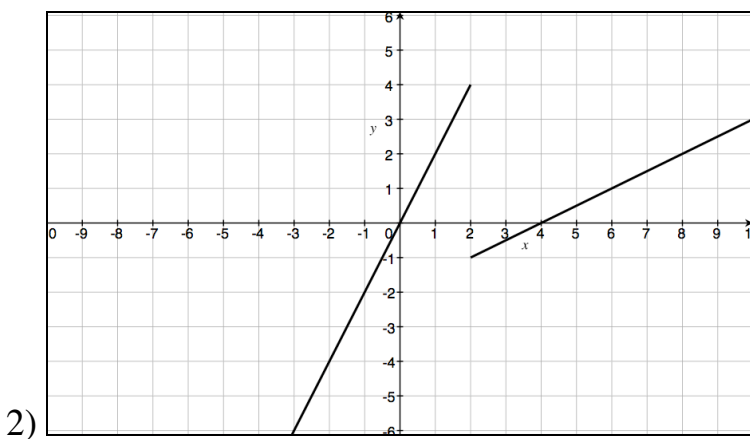


# PRACTICE

Directions – Convert the following graphs of piecewise functions into equations.

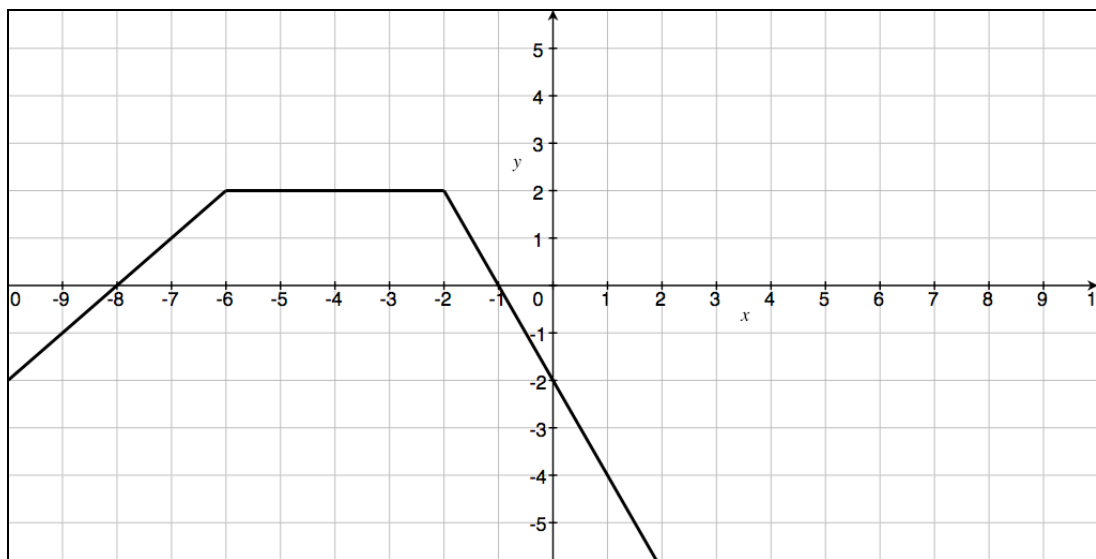


Equation:



Equation:

3)



Equation:

# AP Calc – Exit Slip – 9/2/10

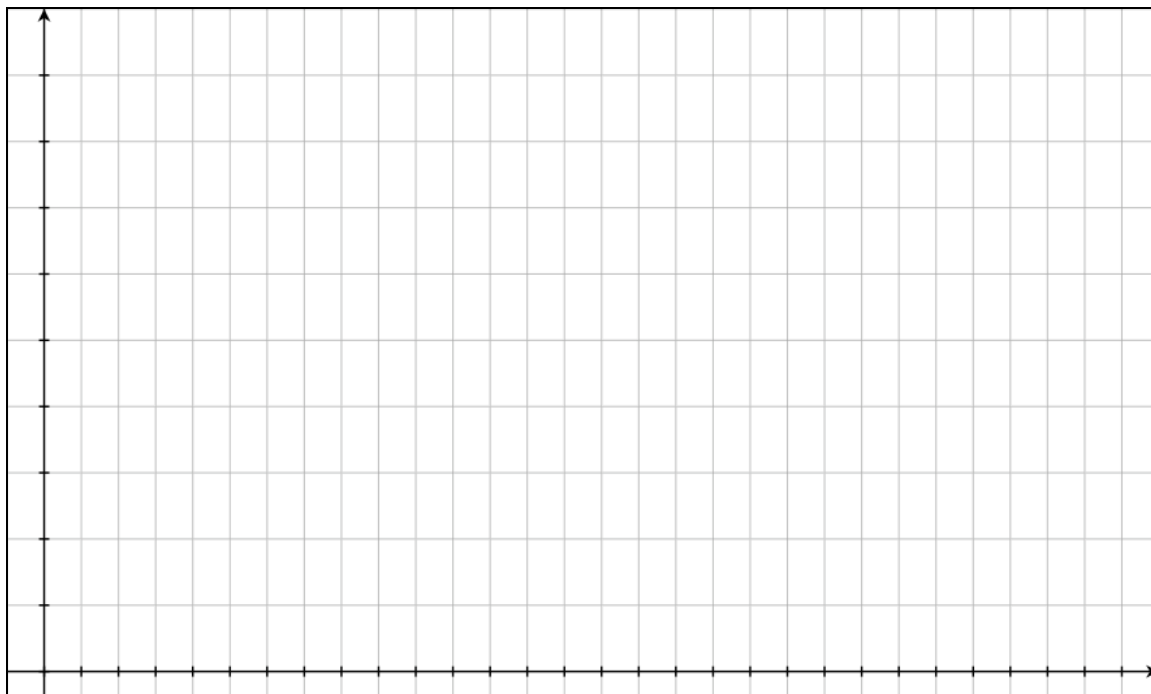
Name: \_\_\_\_\_

Block: \_\_\_\_\_

- 1) Use the following verbal model to sketch a graph and construct an algebraic representation of the function.

Your cell phone plan has the following price structure: You pay \$15 per month to be able to send 100 text messages. Each 100 messages beyond the first 100 costs an additional \$10 (for example, if you send 200 messages then you pay \$25).

Sketch



Equation

$$f(x) = \left\{ \begin{array}{l} \phantom{0} \\ \phantom{0} \\ \phantom{0} \end{array} \right.$$