

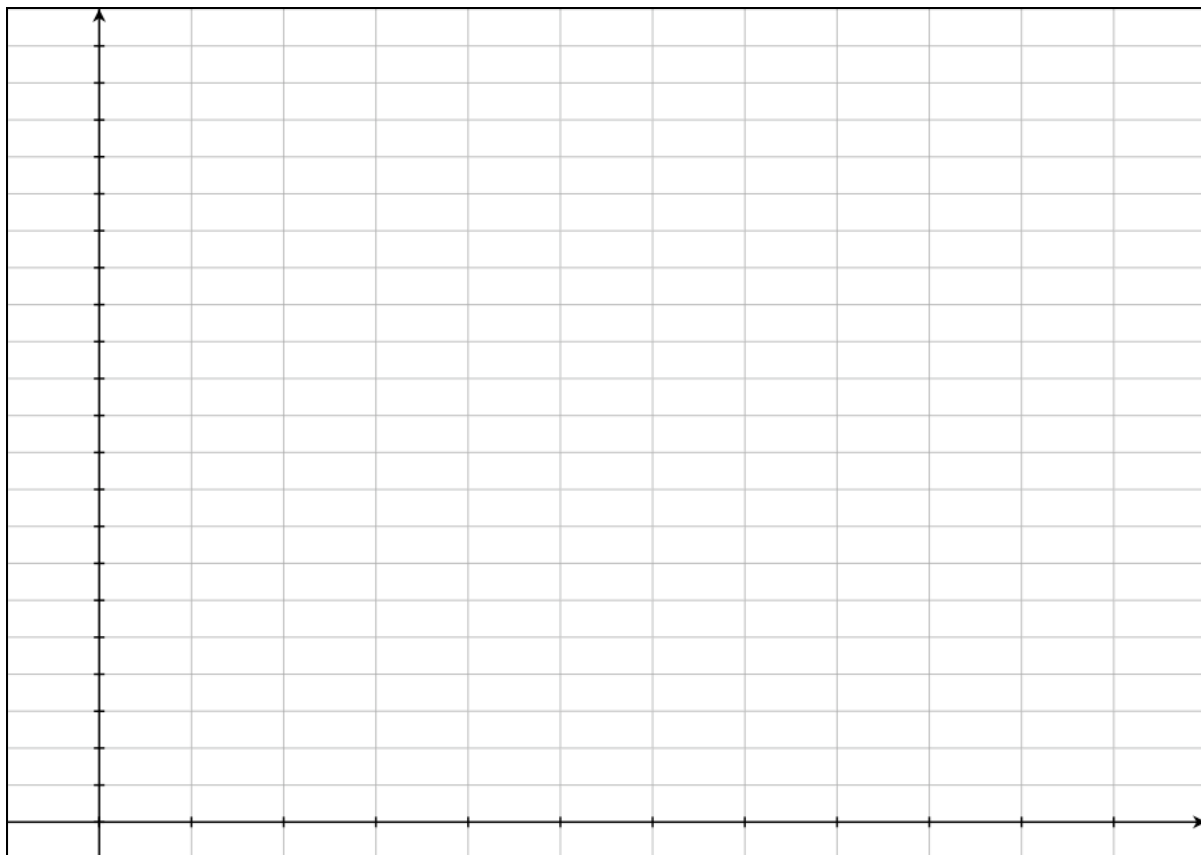
# Precalc Warm Up – 8/31/10

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

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

1) Sketch a graph of the following verbal model:

Mr. Monte-Sano has \$50 in the bank on day 0. Each day he adds \$5 to the account. Sketch the amount of money he has in the bank for the first 10 days.



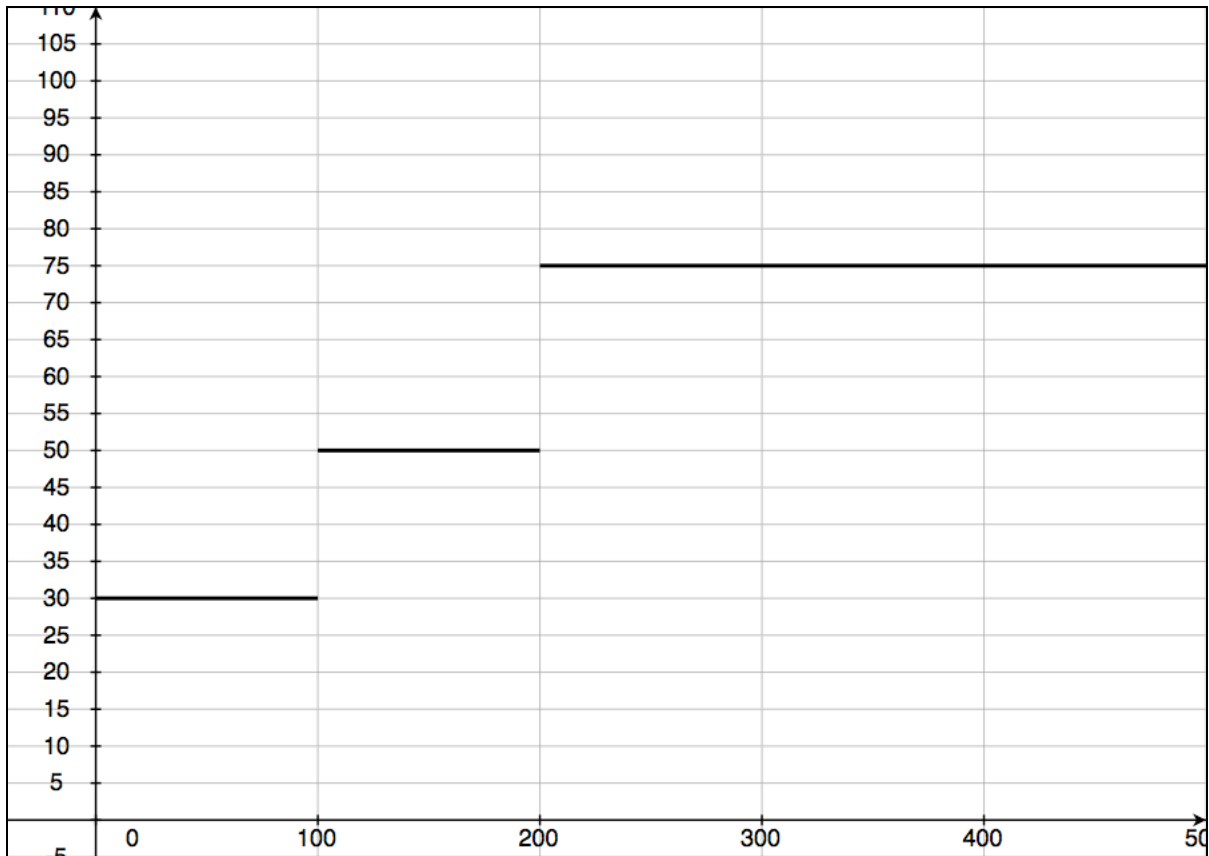
# PIECEWISE FUNCTIONS

## SKILL BUILDER

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

Concept – Students will be able to sketch a function given an algebraic representation of a piecewise function

Consider the following graph:

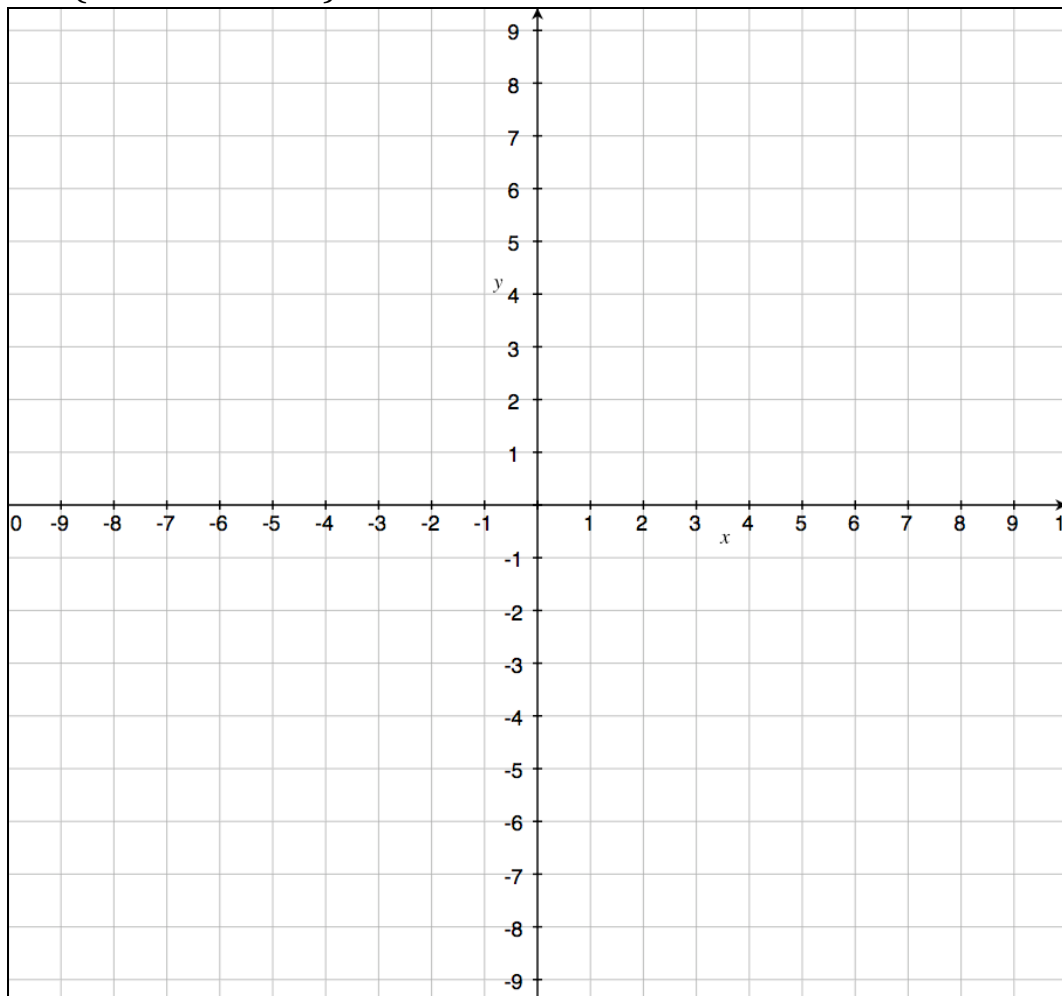


Piecewise function definition:

Notation

Example

$$f(x) = \begin{cases} 2x - 5, & x > 4 \\ -x + 7, & x \leq 4 \end{cases}$$



# PRACTICE

Directions – Graph the following piecewise functions on a separate piece of graph paper.

$$1) f(x) = \begin{cases} 2x, & x < 3 \\ x, & x \geq 3 \end{cases}$$

$$2) f(x) = \begin{cases} -x + 4, & x < -2 \\ 4x - 6, & x \geq 0 \end{cases}$$

$$3) f(x) = \begin{cases} 1, & 0 \leq x \leq 3 \\ 2x, & 3 < x \leq 6 \end{cases}$$

# Precalc – Exit Slip – 8/31/10

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

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

1) Graph the following piecewise function.

$$f(x) = \begin{cases} 70, & 0 \leq x \leq 5 \\ 10x + 20, & 5 < x \leq 10 \end{cases}$$

