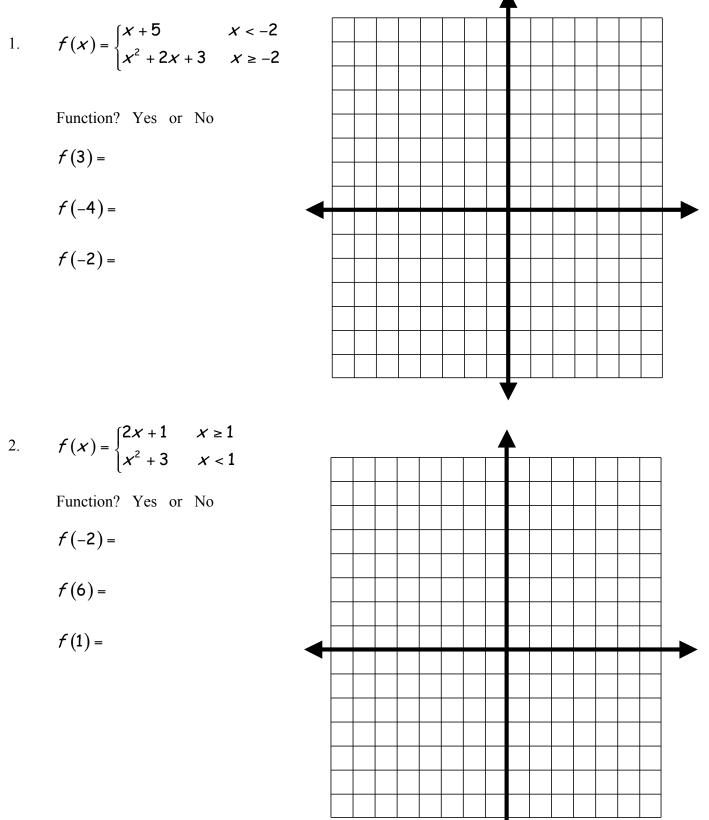
Name:

Worksheet Piecewise Functions Algebra 2

Part I. Carefully graph each of the following. Identify whether or not he graph is a function. Then, evaluate the graph at any specified domain value. You may use your calculators to help you graph, but you must sketch it carefully on the grid!



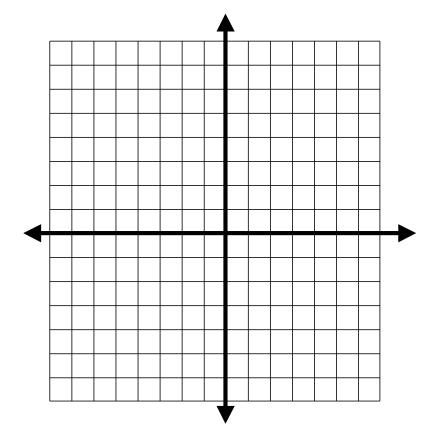
3.
$$f(x) = \begin{cases} -2x+1 & x \le 2\\ 5x-4 & x > 2 \end{cases}$$

Function? Yes or No

f(-4) =

f(8) =

$$f(2) =$$



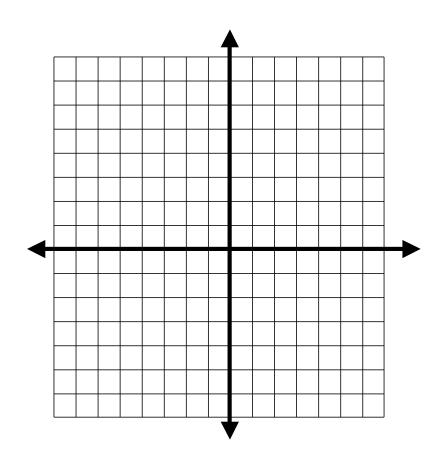
4.
$$f(x) = \begin{cases} x^2 - 1 & x \le 0\\ 2x - 1 & 0 < x \le 5\\ 3 & x > 5 \end{cases}$$

Function? Yes or No

f(-2) =

f(0) =

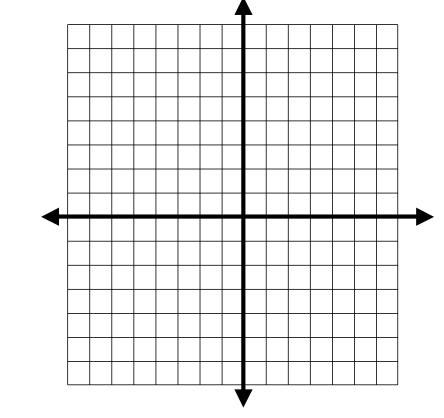




5.
$$f(x) = \begin{cases} x^2 & x \le 0 \\ -x^2 + 4 & x > 0 \end{cases}$$

Function? Yes or No f(-4) =f(0) =

f(3) =



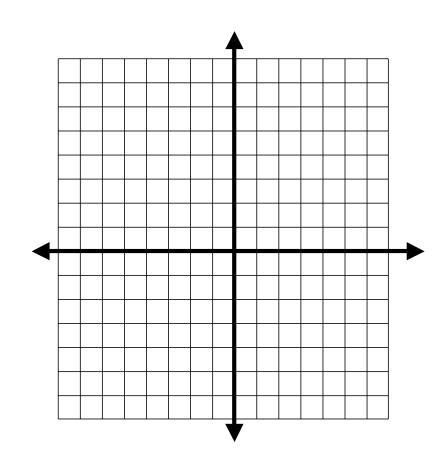
6.
$$f(x) = \begin{cases} 5 & x \le -3 \\ -2x - 3 & x > -3 \end{cases}$$

Function? Yes or No

f(-4) =

f(0) =

$$f(3) =$$



Part II. Write equations for the piecewise functions whose graphs are shown below. Assume that the units are 1 for every tic marc.

