

I'm not robot!

$$1.50x + .50y = 78.50$$

$$x + y = 87$$

Step 1: Rewrite $x + y = 87$

$$x - x + y = 87 - x$$

$$y = 87 - x$$

$$y = -x + 87$$

Step 2: Substitute this equation into the 1st equation and solve for x.

$$1.50x + .50(-x + 87) = 78.50$$

$$1.50x + (-.50x) + 43.50 = 78.50 \quad \text{Distribute!}$$

$$x + 43.50 = 78.50 \quad \text{Combine like terms.}$$

$$x + 43.50 - 43.50 = 78.50 - 43.50 \quad \text{Solve for x.}$$

$$x = 35$$

Step 3: Now substitute your value for x (35) and solve for y.

$$y = -x + 87$$

$$y = -35 + 87$$

$$y = 52$$

(35, 52) is the solution to this system.

Name : _____ Score : _____
 Teacher : _____ Date : _____

Properties of Parabolas

Identify the following.

1) $x = -2y^2 - 4y + 70$

Min/Max value:
 Latus:
 y-int:
 x-int:
 Vertex:
 Axis of Symmetry:
 Opens:

4) $x = 2(y - 3)^2 - 2$

Min/Max value:
 Latus:
 y-int:
 x-int:
 Vertex:
 Axis of Symmetry:
 Opens:

2) $y = 2x^2 - 4x - 6$

Min/Max value:
 Latus:
 y-int:
 x-int:
 Vertex:
 Axis of Symmetry:
 Opens:

5) $x = 2y^2 - 24y + 70$

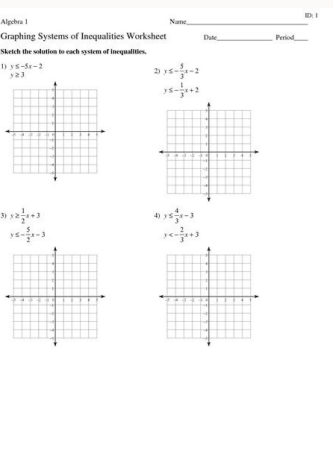
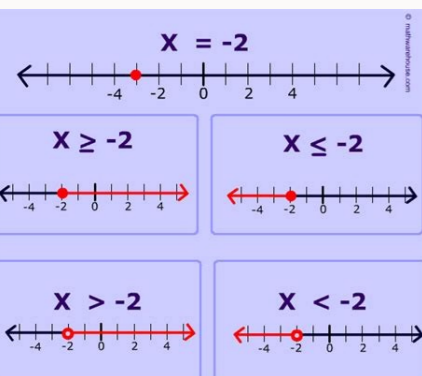
Min/Max value:
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3) $y = -2(x - 3)^2 + 2$

Min/Max value:
 Latus:
 y-int:
 x-int:
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 Axis of Symmetry:
 Opens:

6) $y = -2(x - 6)^2 + 2$

Min/Max value:
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AMR Piecewise Functions

Name: _____

Part I. Carefully graph each of the following. Identify whether or not the 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!

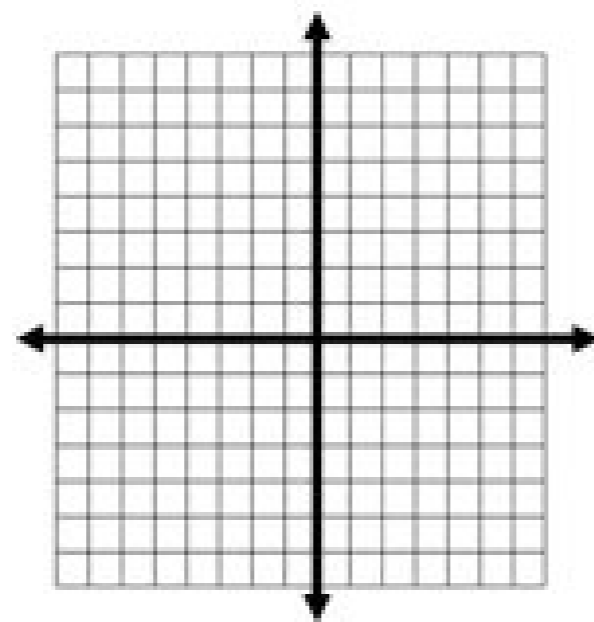
1. $f(x) = \begin{cases} x + 5 & x < -2 \\ x^2 + 2x + 3 & x \geq -2 \end{cases}$

Function? Yes or No

$f(3) =$

$f(-4) =$

$f(-2) =$



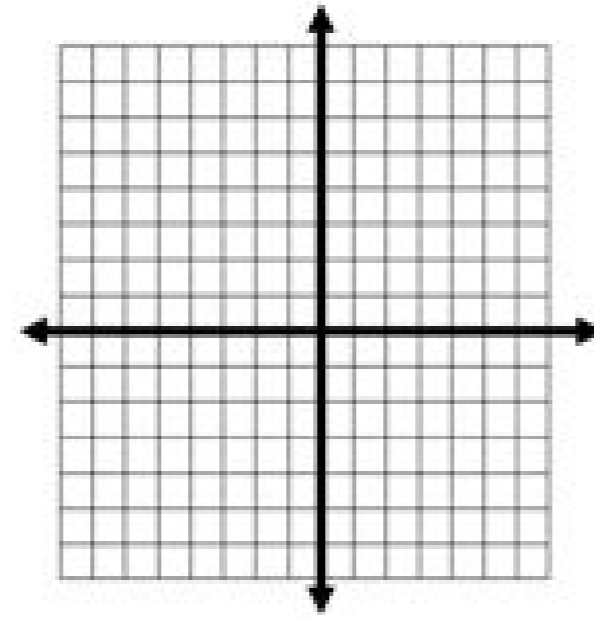
2. $f(x) = \begin{cases} 2x + 1 & x \geq 1 \\ x^2 + 3 & x < 1 \end{cases}$

Function? Yes or No

$f(-2) =$

$f(6) =$

$f(1) =$



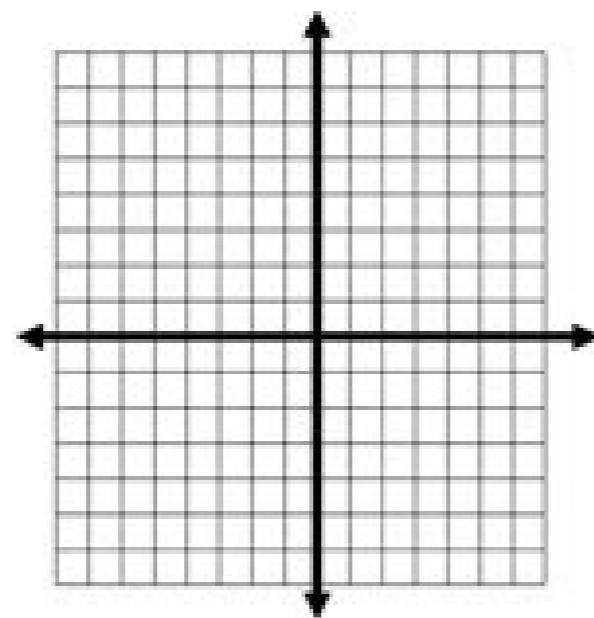
3. $f(x) = \begin{cases} -2x + 1 & x \leq 2 \\ 5x - 4 & x > 2 \end{cases}$

Function? Yes or No

$f(-4) =$

$f(8) =$

$f(2) =$



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