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**Open**

Using Elimination/Addition to Solve Systems of Equations Activity

Use elimination/addition to solve the systems of equations listed below. Be sure to show the steps you used to solve each system of equations.

$$\begin{array}{l} 4x + 2y = 8 \\ 5x - 3y = 4 \end{array} \qquad \begin{array}{l} x + 2y = 3 \\ -x + y = -2 \end{array}$$

$$\begin{array}{l} X + 4y = 7 \\ 2x - 4y = -3 \end{array} \qquad \begin{array}{l} 2x + 5y = 6 \\ -x + 2y = 3 \end{array}$$

$$\begin{array}{l} -2x + 3y = 7 \\ 2x - 5y = -3 \end{array} \qquad \begin{array}{l} 2x - 3y = -2 \\ 3x + 3y = 4 \end{array}$$

From the book:

Graphing Quadratic Functions in Vertex Form

For #1-4, label the axis of symmetry, vertex, intercepts, and at least three other points on the graph.

1)  $f(x) = x^2 - 4x + 4$   
 2)  $f(x) = x^2 + 6x + 9$   
 3)  $f(x) = x^2 - 2x - 3$   
 4)  $f(x) = x^2 + 4x + 4$

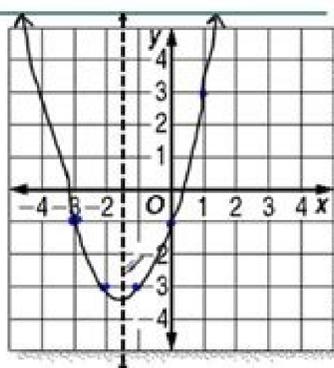
5)  $f(x) = x^2 - 6x + 9$   
 6)  $f(x) = x^2 + 8x + 16$   
 7)  $f(x) = x^2 - 4x - 12$   
 8)  $f(x) = x^2 + 10x + 25$

# Graphing a Quadratic (Table) *Parabola U-shaped*

Graph the following by making a table of values.

1)  $f(x) = x^2 + 3x - 1$

x	y	Calculation
-3	-1	$(-3)^2 + 3(-3) - 1$
-2	-3	$(-2)^2 + 3(-2) - 1$
-1	-3	$(-1)^2 + 3(-1) - 1$
0	-1	$0^2 + 3(0) - 1$
1	3	$1^2 + 3(1) - 1$
2	9	$2^2 + 3(2) - 1$



Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## Graphing Exponential Functions $y = a \cdot b^x$ ANSWER KEY

Graph the following exponential functions.

1.  $y = 2 \cdot 2^x$

x	y
-1	0.5
0	1
1	2
2	4
3	8

2.  $y = \frac{1}{2} \cdot 4^x$

x	y
-2	0.03125
-1	0.125
0	0.5
1	2
2	8
3	32

3.  $y = 24 \left(\frac{1}{2}\right)^x$

x	y
-2	96
-1	48
0	24
1	12
2	6
3	3

4.  $y = 15 \left(\frac{1}{3}\right)^x$

x	y
-2	135
-1	45
0	15
1	5
2	1.7
3	0.5

5.  $y = 9^x$

x	y
-2	0.04
-1	0.33
0	1
1	9
2	81
3	729

6.  $y = \frac{3}{4} \cdot 4^x$

x	y
-2	0.075
-1	0.375
0	0.75
1	3
2	12
3	48



