

Name \_\_\_\_\_

## Section 4.2

### Algebra II: Solution Pairs

#### Essential Questions:

How do I find Solution Pairs? - Do the algebra first.

#### Notes

Which of these ordered pairs are solutions of  $x + y = 8$

- a. (7,1)    b. (-3,11)    c. (2,-9)    d. (4,4)

Which of the ordered pairs is a solution of the given equation?

- $2x + y = -6$  a. (-8,4)    b. (-1,-4)    c. (5,-16)    d. (9,1)
- a. (10,2)    b. (-4,4)    c. (-6,-2)    d. 9,-1

Find Four solutions for each problem.

Solve for Y.

$$\begin{array}{r} x + y = 9 \\ -x \quad -x \\ \hline y = -x + 9 \end{array}$$

$$\begin{array}{r} y + 3x = 7 \\ +3x \quad +3x \\ \hline y = 3x + 7 \end{array} \quad -4x + y = 5$$

$$\begin{array}{r} -3x + y = 6 \\ +3x \quad +3x \\ \hline y = 3x + 6 \end{array}$$

x	y
-1	10
0	9
1	8
2	7

x	y
-1	4
0	7
1	10
2	13

x	y
-1	
0	
1	
2	

x	y
-1	3
0	6
1	9
2	12

Solve for Y.

~~$x + y = 9$      $y + 3x = 7$      $4x + y = 5$      $3x + y = 6$~~

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Which choices are solution pairs for the equation?

Do not solve for x first.  
Solve for y first.

1.  $y = 3x - 2$

a. (0,2)

b. (-2,0)

c. (2,4)

2.  $x + y = 8$

a. (5,3)

b. (-5,-3)

c. (-4,12)

3.  $2x - y = 8$

a. (1,-6)

b. (0,-8)

c. (-8,8)

4)  $y = x - 1$

5)  $y = 2x + 5$

6)  $y + x = 0$   
 $x - x = -x$

$y = -x + 0$

7)  $y + x = 7$

x	y
-1	
0	
1	
2	

8)  $y - x = 6$

x	y
-1	
0	
1	
2	

9)  $y - x = 8$

x	y
-1	1
0	0
1	-1
2	-2

10)  $y + 2x = 4$   
 $+2x \quad +2x$   
 $y = 2x + 4$

x	y
-1	
0	
1	
2	

11)  $y - 3x = 2$

x	y
-1	
0	
1	
2	

12)  $y - 4x = 7$

x	y
-1	
0	
1	
2	

13)  $y + 5x = 0$

x	y
-1	2
0	
1	
2	

14)  $y - 2x = 2$

x	y
-1	
0	
1	
2	

15)  $y - 3x = 9$

x	y
-1	
0	
1	
2	

x	y
-1	
0	
1	
2	

x	y
-1	
0	
1	
2	

x	y
-1	
0	
1	
2	