

**P.S. #5.7 - Special Cases of Systems of Equations**

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

Solve each of the following systems of equations using your method of choice.

1.)  $3x + y = 7$   
 $6x + 2y = 14$

2.)  $x + y = 3$   
 $8x + 8y = 32$

How many solutions? \_\_\_\_\_

**Explain how you know.**

How many solutions? \_\_\_\_\_

**Explain how you know.**

3.)  $6x + 2y = 12$   
 $3x + y = 21$

4.)  $2x + y = 8$   
 $4x - 2y = 24$

How many solutions? \_\_\_\_\_

**Explain how you know.**

How many solutions? \_\_\_\_\_

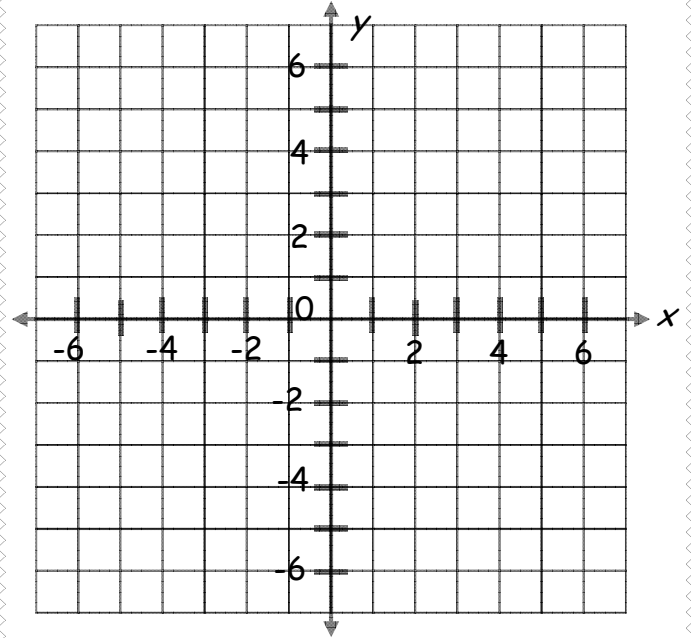
**Explain how you know.**

5.) **Directions:** Solve the following system of equations using *all three methods*. Should you get the same answer?

$$-2x - y = -9$$

$$5x - 2y = 18$$

Graphically



Substitution

Elimination