

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

**Review – Solving Systems of Equations**

- Read the instructions carefully.
- Show all your work to receive full credit!
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**Tell whether the ordered pair is a solution of the given system.**

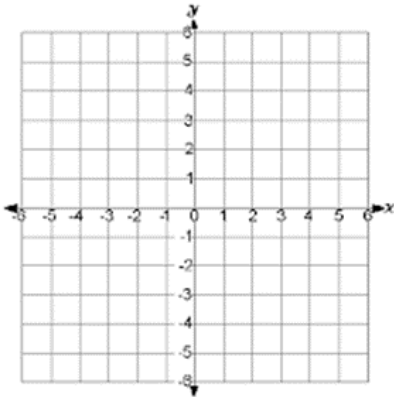
1.  $(-2, 1); \begin{cases} y = -2x - 3 \\ y = x + 3 \end{cases}$

2.  $(9, 2); \begin{cases} x - 4y = 1 \\ 2x - 3y = 3 \end{cases}$

3.  $(3, -1); \begin{cases} y = -\frac{1}{3}x \\ y + 2x = 5 \end{cases}$

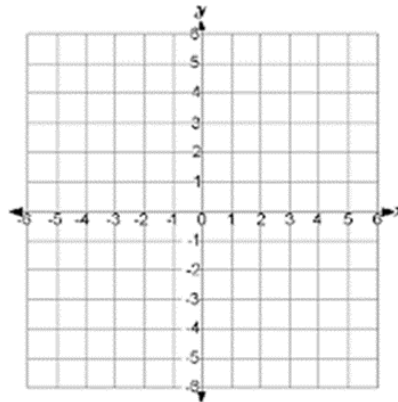
**Solve each system by graphing.**

4.  $\begin{cases} y = x + 5 \\ y = \frac{1}{2}x + 4 \end{cases}$



Solution: (\_\_\_\_\_, \_\_\_\_\_)

5.  $\begin{cases} y = -x - 2 \\ 2x - y = 2 \end{cases}$



Solution: (\_\_\_\_\_, \_\_\_\_\_)

6. Which is incorrect? Explain the error.

**A**

$\begin{cases} x + y = -3 & x + y = -3 \\ 3x + y = 3 & -(3x + y = 3) \end{cases}$
$-2x = 0$
$x = 0$

**B**

$\begin{cases} x + y = -3 & x + y = -3 \\ 3x + y = 3 & -(3x + y = 3) \end{cases}$
$-2x = -6$
$x = 3$

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**Solve each system by substitution. Check your solution.**

**7.**

$$\begin{cases} y = -x + 5 \\ 2x + y = 11 \end{cases}$$

**8.**

$$\begin{cases} 4x - 3y = -1 \\ 3x - y = -2 \end{cases}$$

**Solve each system by elimination. Check your solution.**

**9.**

$$\begin{cases} x + 3y = 15 \\ 2x - 3y = -6 \end{cases}$$

**10.**

$$\begin{cases} -2x + 5y = -1 \\ 3x + 2y = 11 \end{cases}$$

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11. Christiana and Marlena opened their first savings accounts on the same day. Christiana opened her account with \$50 and plans to deposit \$10 every month. Marlena opened her account with \$30 and plans to deposit \$15 every month.

a. After how many months will their two accounts have the same amount of money?

Define variables: \_\_\_\_\_

12. Kiara and Brooklyn went to a Mexican restaurant. Kiara paid \$9 for 2 tacos and 3 enchiladas. Brooklyn paid \$12.50 for 3 tacos and 4 enchiladas. How much does each delicious item cost?

Define variables: \_\_\_\_\_

13. It takes Akira 10 minutes to make a black and white drawing and 25 minutes for a color drawing. On Saturday he made a total of 9 drawings in 2 hours. Write and solve a system of equations to determine how many drawings of each type Akira made.

Define variables: \_\_\_\_\_