

Target 6-1: I can solve systems of equations by graphing and determine the number of solutions. I can use this to solve real world situations.

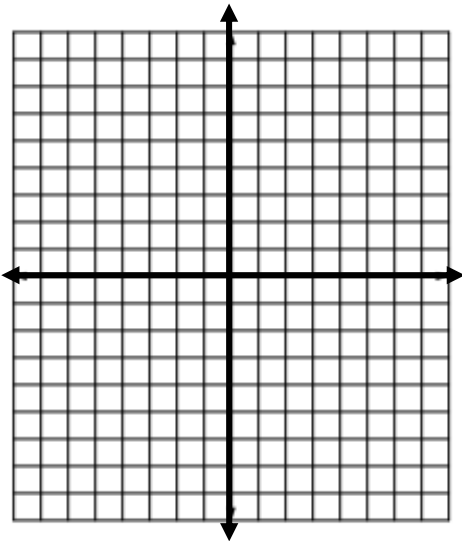
Solve by graphing. Remember to state your solution; the graph itself is not your answer.

1. $y = \frac{1}{2}x - 3$

$y = 2 - \frac{3}{4}x$

Type of solution: _____

Solution(x, y): _____

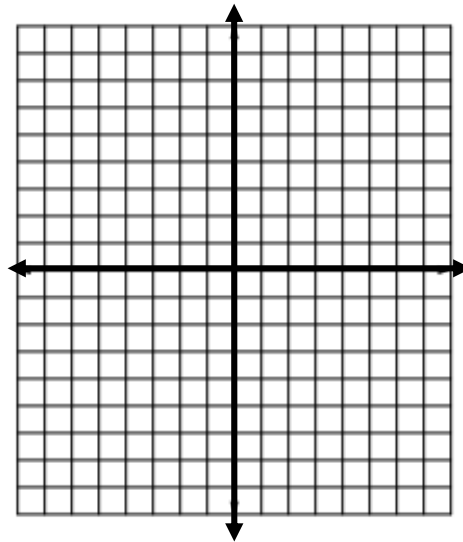


2. $-x + y = -3$

$4x + 3y = 12$

Type of solution: _____

Solution(x, y): _____

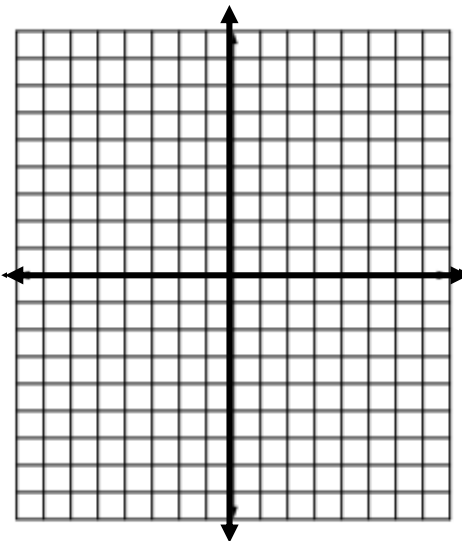


3. $y = \frac{3}{4}x + 2$

$4y - 3x = -12$

Type of solution: _____

Solution(x, y): _____

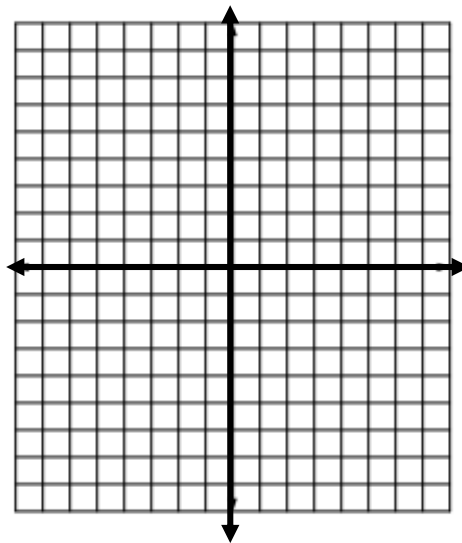


4. $-4y = 2x - 20$

$2y - 10 = -x$

Type of solution: _____

Solution(x, y): _____



Target 6-2: I can solve systems of equations by using substitution and use this to solve real world situations.

Solve with substitution and state your solution as an ordered pair if possible.

1. $-x + y = -1$
 $x = y - 1$

Verification:

Type of solution: _____

Solution (x, y): _____

2. $y = -1 - x$
 $y = -13 - 5x$

Verification:

Type of solution: _____

Solution (x, y): _____

3. $-7x - 2y = -13$
 $x - 2y = 11$

Verification:

Type of solution: _____

Solution (x, y): _____

Target 6-3: I can solve systems of equations by using elimination and use this to solve real world situations.Solve by elimination, state your solution as an ordered pair if possible.

1.
$$\begin{aligned} -7x + y &= 19 \\ -2x + 3y &= -19 \end{aligned}$$

2.
$$\begin{aligned} 2x - y &= 19 \\ -2x + y &= -19 \end{aligned}$$

3.
$$\begin{aligned} -4x - 2y &= 14 \\ -10x + 7y &= -25 \end{aligned}$$

Verification:

Verification:

Verification:

Type of solution: _____

Type of solution: _____

Type of solution: _____

Solution (x, y): _____

Solution (x, y): _____

Solution (x, y): _____

T6-4 Applications

1. The admission fee at a small fair is \$1.50 for children and \$4.00 for adults. On a certain day, 2200 people enter the fair and \$5050 is collected. How many children and how many adults attended?

Define variables:	Solve the system showing all steps. Method: _____
System of equations:	
State your solution in a sentence:	

2. U-Haul rents trucks for \$19.99 and charges \$2.77 per mile. Penske rents trucks for \$49.99 and charges \$0.27 per mile. How far will both trucking companies travel before they have the same total cost? Write a system of equations to represent both moving truck companies and define your variables.

Define variables:	Solve the system showing all steps. Method: _____
System of equations:	
State your solution in a sentence:	