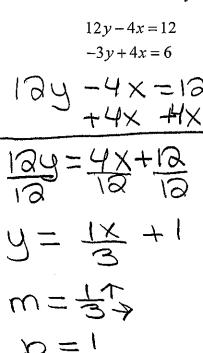
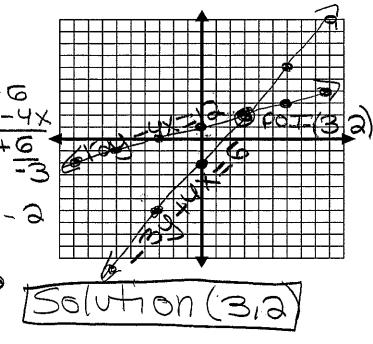
DO NOW: Solve the systems of equations graphically.





Aim: Solving systems of equations algebraically using the addition/elimination method.

1. Solve the systems of equations algebraically.

2. What is the solution of the system of equations below?

$$+ \frac{x+2y=7}{-x+3y=18}$$

$$+ \frac{5y}{5} = \frac{25}{5}$$

$$+ \frac{3y}{5} = \frac{35}{5}$$

$$\times + \frac{3y}{5} = \frac{7}{5}$$

$$\times + \frac{3y}{5} = \frac{7}{5}$$

$$\times + \frac{3y}{5} = \frac{7}{5}$$

$$\times + \frac{10}{5} = \frac{7}{5}$$

3. Solve the systems of equations algebraically.

$$3(-2x+y=-1)$$

$$-4x + 3y = -3$$

$$-4x + 3y = -3$$

$$5y = -35$$

$$4x + 3y = -37$$

$$4x + 3(5) = -37$$

$$4x + 15 = -37$$

$$4x + 15 = -37$$

$$4x + 15 = -37$$

$$4x = 14$$

$$x = 3$$

4. What is the solution of the system of equations below?

$$5(-3y+4x=17)$$

$$-3(-5y+3x=21)$$

$$-15x+20x=85$$

$$15x-9x=-63$$

$$11x=20$$

$$-3y+4x=17$$

PRACTICE PROBLEMS

5. What is the solution of the system of equations below?

$$2x+3y=7$$
 $-2(x+y=3)$
 $-2(x+y$

6. What is the value of the y-coordinate of the solution to the system of equations 2x + y = 8 and x - 3y = -3?

1)	-2
QT	2
3)	3

4) -3

$$-3(x + 3) = 3$$
 $-3(x + 3) = 8$
 $-3(x + 3) =$

7. What is the value of A in the following system of equations?

$$5(2A+3W=12)$$