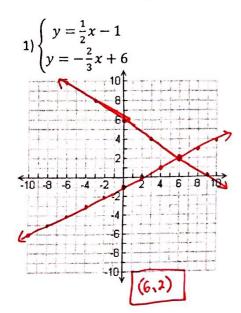
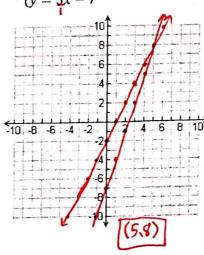
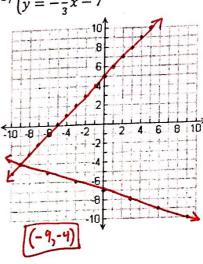
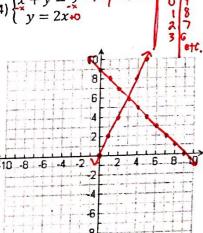
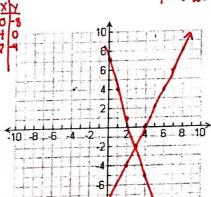
Solve the system by graphing.











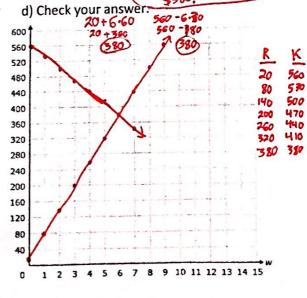
6) Reynold has \$20 in his bank account and deposits \$60 per month. Keith has \$560 in his bank account but withdraws

Sy = 60x+20 \$30 per month.

- a) Write a system of equations
- b) Graph them and find the intersection
- c) Explain what the numbers in your solution represent After 6 weeks, they both have

7) Choose two problems from #1 - 6, then check your solution by substituting the numbers back into both original equations.

- #2 8=2.5-7 8=10-7 9=3.5-7 8=8
 - 3+6=9
- -4(3)42(-2)=-16 -12-4=-16 -2=-3(37+7

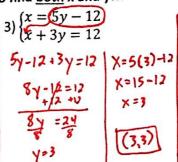


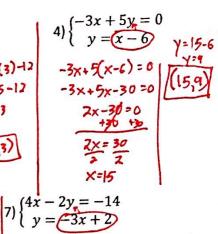
If you need help with these: Go to lischwe.weebly.com and look at the lessons on November 29 and 30.

Solve by substitution. Use the back if necessary. Don't forget to find both x and y!!!

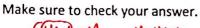
2)
$$\begin{cases} y = 3x \\ x - 2y = 15 \end{cases}$$

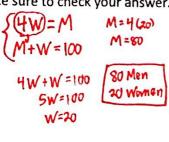
 $x - 2(3x) = 15$
 $x - 6x = 15$
 $-\frac{5x}{-5} = \frac{15}{-5}$
 $x = -3$
 $(-3, -9)$

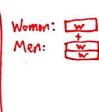


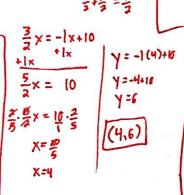


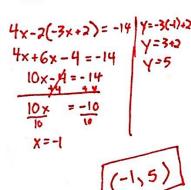
5) There are 100 members in the US Senate. Currently, there are four times as many men as women. Write a system of equations, solve it, and describe what the numbers in your solution represent.











Solving Systems by Elimination: Review

If you need help with these: Go to lischwe.weebly.com and look at the lessons on December 1st and 4th.

Solve by elimination. Use the back if necessary. Don't forget to find both x and y!!!

1)
$$\begin{cases} x + 4y = 9 & 7 + 4y = \frac{1}{2} \\ 3x - 4y = 19 & -\frac{7}{2} & -\frac{7}{2} \\ \frac{1}{2}x & = \frac{28}{4} & \frac{1}{4}x = \frac{2}{4} \\ x = 7 & (7, \frac{1}{2}) \end{cases}$$

$$2) \begin{cases} (-x + 2y = -7) - 3 - 2x + 4y = -1 \\ 2x - 3y = 8 \rightarrow 2x - 3y = 8 \end{cases}$$

$$2x - 3(-6) = 8$$

$$2x - 3(-6) = 8$$

$$2x + 18 = 8$$

$$-16 + 18$$

$$2x = -10$$

3)
$$\{5x + 3y = -14 \rightarrow 5k + 3y = -14 \}$$

 $\{5x - 4y = 42\} \rightarrow \frac{-5x + 4y = -42}{7}$
 $5x - 4(-8) = 42$
 $5x - 4(-8) = 42$
 $5x + 32 = 42$
 $5x + 32 = 42$
 $5x = 8$
 $5x = 8$
 $5x = 8$
 $5x = 8$
 $5x = 8$

4) Farmer Ben has 22 animals - all are either ducks or cows. Each cow has 4 legs, each duck has 2 legs, and there are 56 legs all together. Write and solve a system to find out how many of each type of animal Farmer Ben has. check Make sure to check your answer.

1 ke sure to check your answer.

$$4c + 2d = 56 \rightarrow 4c + 2d = 56$$
 $-2(c + d = 22) \rightarrow -2c - 2d = -44$
 $-2c = 12$
 $-2c = 12$
 $-2c = 12$
 $-2c = 6$
 $-2c = 6$

5)
$$\frac{3}{5}(x + 6y = 22) \rightarrow 6x + 18y = 66$$
5) $\frac{3}{5}(3x - 4y = 7) \rightarrow \frac{6x + 8y = -14}{26y = 52}$
 $\frac{26y = 52}{26}$
 $\frac{2}{26}(3x - 4y = 7) \rightarrow \frac{26y = 52}{26}$
 $\frac{2}{26}(3x - 4y = 7) \rightarrow \frac{2}{2}(3x - 4y = 7)$
 $\frac{2}{2}(3x - 4y = 7)$

6) Check your answer for one of the problems from #1-3 or 5 by plugging the numbers into both original equations.