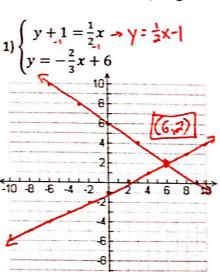
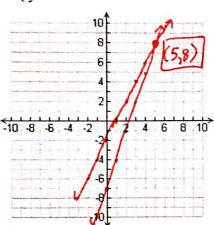
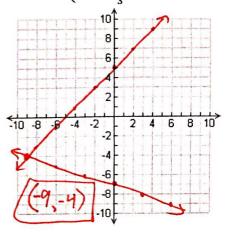
Solve the system by graphing.



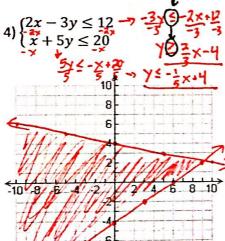
2)
$$\begin{cases} 2y + 4 = 4x \rightarrow 2y = 4x - 4 \rightarrow 1 = 2x - 2 \\ y = 3x - 7 \end{cases}$$



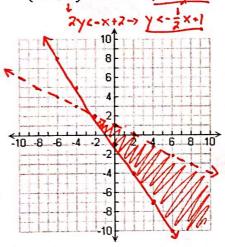
3)
$$\begin{cases} -x = 5 - y \rightarrow \frac{-x+y}{4x} \rightarrow y = x + \frac{1}{2} \\ y = -\frac{1}{3}x - 7 \end{cases}$$



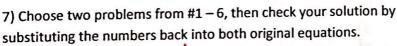


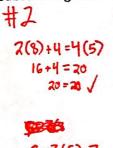


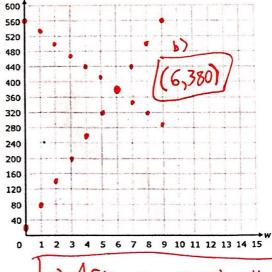
5)
$$\begin{cases} 3x + 2y \ge -2 \xrightarrow{-7} 2y \xrightarrow{7-3} x \xrightarrow{-2} \\ x + 2y < 2 & y \ge -\frac{3}{2} \xrightarrow{x-1} \end{cases}$$



- 6) Ray has \$20 in his bank account and deposits \$60 per month. Will has \$560 in his bank account but withdraws \$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.





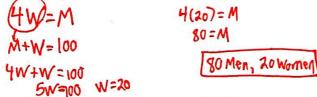


c) After 6 months, both will have \$380 in their account.

Solve by substitution. Don't forget to find both x and y!!!

8)
$$\begin{cases} y = -x + 10 \\ y = 6x + 59 \end{cases}$$
9) $\begin{cases} -3x + 5y = 0 \\ 3y = 3x - 18 \\ y + 2k = 5 \end{cases}$
10) $\begin{cases} 2x + y = 1 \\ y + 2k = 5 \\ -2x + 3x - 3x \end{cases}$
10) $\begin{cases} -3x + 5y = 0 \\ 3y = 3x - 18 \end{cases}$
10) $\begin{cases} -3x + 5y = 0 \\ 3y = 3x - 18 \end{cases}$
11) $\begin{cases} -3x + 5y = 0 \\ 3y = 3x - 18 \end{cases}$
12) $\begin{cases} -3x + 5y = 0 \\ 3y = 3x - 18 \end{cases}$
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10) $\begin{cases} -3x + 5y = 0 \\ 3y = 3x - 18 \end{cases}$
10) $\begin{cases} -3x$

11) 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.



Solve by elimination. Don't forget to find both x and y!!!

14) Check your answer for one of the problems from #12 -13 by plugging the numbers into **both** original equations.

$$4(1) = |9-3(6)|$$
 $5+4(1)=9$
 $6+4=9$
 $9=9\sqrt{ 4=19-16}$

15) 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.

$$-2(D+C=2) - -2D-2C=-94$$

$$2D+4C=56 - 2D+4C=56$$

$$2C=12$$

2x+6(27=22

2×=16 ×=5

C=6

18)
$$\begin{cases} x + 2y = 2 \\ y = x + 4 \end{cases}$$
 (0.1)

