Period_____

1.	What strategies have we developed to solve systems of equations?
	Substitution
	Elimination
	Graphing
2.	What strategies have we developed to solve systems of inequalities?
	* only way is by graphing
	* only way is by graphing Ly shading
3.	What does the solution set to a system of an equations look like?
	the Point of intersection between the two lines
4	What does the solution set to a system of inequalities look like?
1.	What does the solution set to a system of inequalities look like? The intersection of the two showed
	dreas
5.	How many solutions are there to a system of equations? Give a graphical example of each possibility.
	(South Control In
	E III ET
6.	How many solutions are there to a system of inequalities? Give a graphical example.
7.	Solve the following system of equations using substitution and by graphing : $(y = 16 - x)$
	$\begin{cases} y = y = 0 \end{cases}$
	I I NA WINK I I I I I I I I I I I I I I I I I I
\	Show work for substitution below:
\	110+4=9
7	
	24-10-20
	5
	24 - 12

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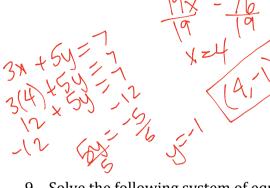
8. Solve the following system of equations using **elimination** and by **graphing**: (3x + 5y = 7)

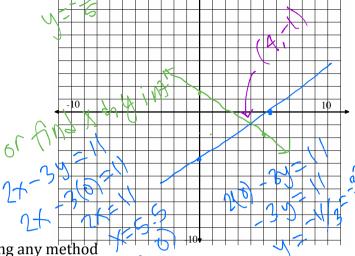
$$3x + 5y = 7$$

$$4(3x + 5y = 7)$$

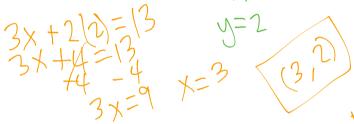
$$2x - 3y = 11$$

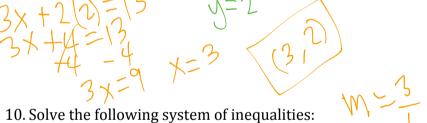
Show work for elimination below

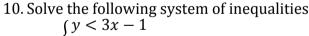




9. Solve the following system of equations using any method
$$2x + 6y = 18$$
 by $+ (9y - 54)$ $- 2x + 2y = 13$ $- 2x + 4y = 24$

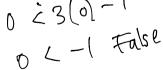


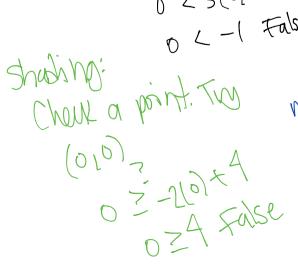


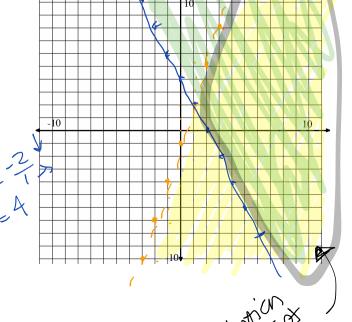


$$\begin{cases} y < 3x - 1 \\ y \ge -2x + 4 \end{cases}$$

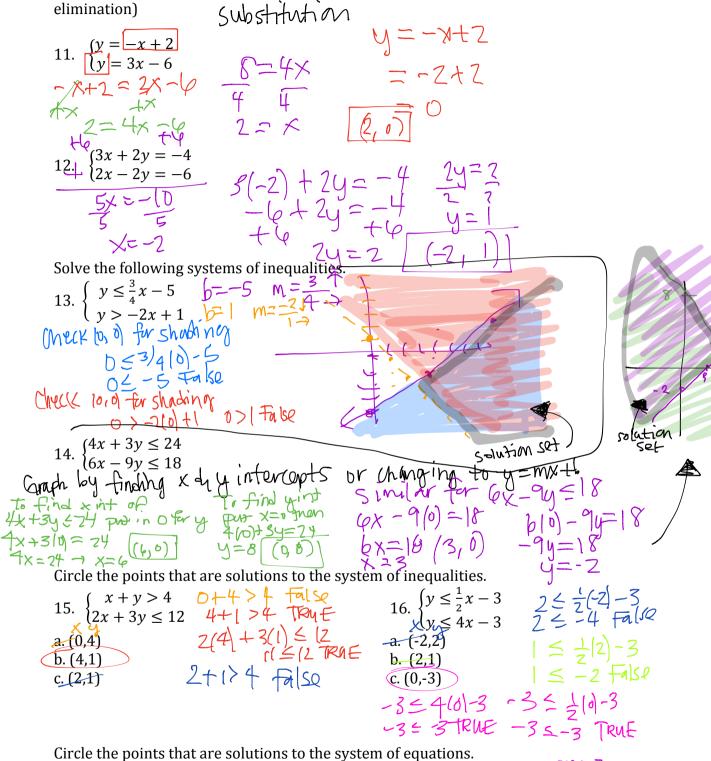
$$\begin{cases} y \ge -2x + 4 \end{cases}$$







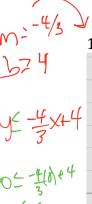
Solve each of the systems of equations below using an appropriate method (substitution or elimination)



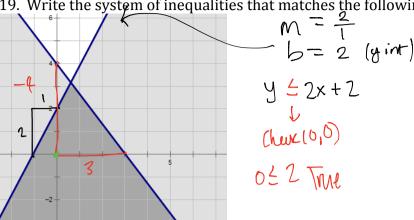
17.
$$\begin{cases} y = \frac{1}{2}x - 3 & 3 = \frac{1}{2}(0) - 3 \\ y = 4x - 3 & 3 \neq -3 \\ \frac{a.(0,3)}{b.(10,2)} & 2 = \frac{1}{2}(10) - 3 \\ c. \text{ No solution} & 2 = 2 \end{cases}$$
18. Solution $2 = 2$
19. Solution $2 = 4(10) - 3$
19. Solution $2 = 37$
19. Since some and different.

tem of equations.
18.
$$\begin{cases} y = 3x + 7 & 0 = 3(0) + 7 \\ y = -3x - 5 & 0 \neq 7 \end{cases}$$

2. $(0,0)$ $= 3(-2) + 7$
2. $(-2,1)$ $= 1$
2. $(-1,4)$ $= -3(-2) - 5$
Thus Me
Solution $= 1$

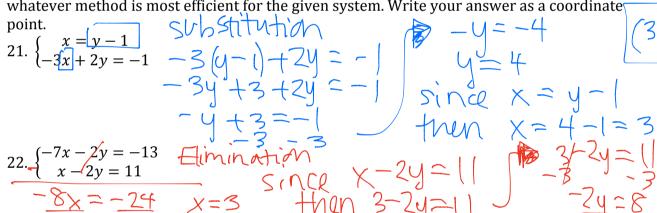


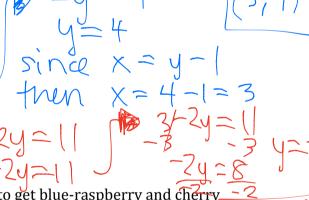
19. Write the system of inequalities that matches the following graph



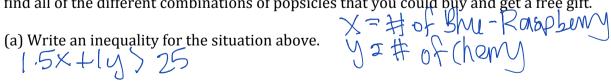
20. When graphing an inequality what does a dotted line mean? That We don't want to include the points on the line in the colution - its just > or <

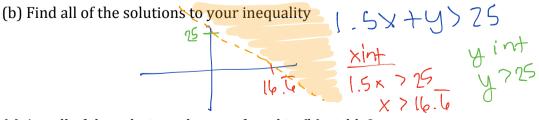
Solve the following systems of equations by using a method other than graphing. Use whatever method is most efficient for the given system. Write your answer as a coordinate





23. You are shopping at Walmart for popsicles. You want to get blue-raspberry and cherry flavors. The blue-raspberry are bigger, so they cost \$1.50 each while the cherry are only \$1. Walmart is having a special and you get a free gift if you spend over \$25. You want to find all of the different combinations of popsicles that you could buy and get a free gift.





(c) Are all of the solutions that you found in (b) viable?