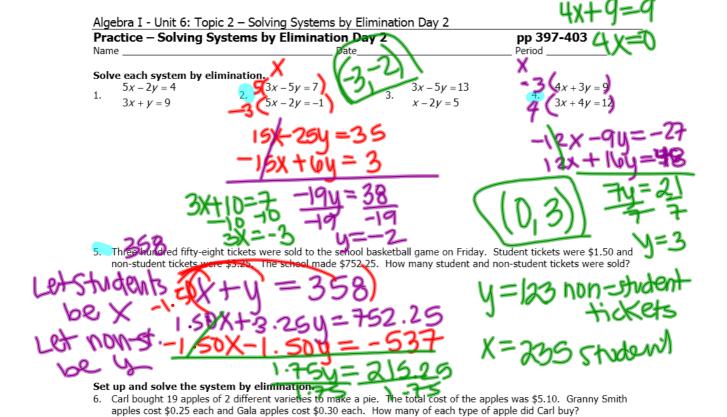
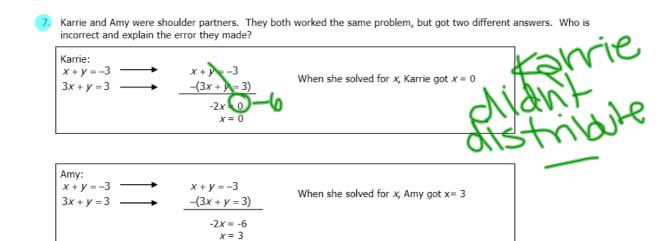


HW Check

- 1. (2,3)
- **2**. (-1,-2)
 - 3.(1, -2)
 - 4. (0,3)
- 5. 235 student, 123 non-student tickets
- 6. 7 Gala apples, 12 Granny Smith apples
- 7. Karrie is incorrect, she didn't distribute the negative to the 3.

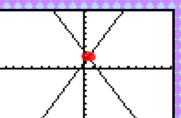






SULUTION

Where is the solution here?



is a point (x,y) where the lines intersect.

Does a system of equations always have a solution? Why or why not?

No. Popule lines don't

Use the table on the calculator to determine if the ordered pair is a solution to the system of equations. Check in the table using a calculator.

1. Solution

x y1 y2 (
3 6/5 -4
4 8/5 -1
5 2 2
6 (2/5 5

Solved for

 $y_1 = \frac{2}{5}x$

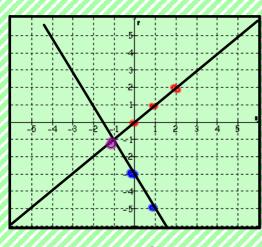
o? 골(6)

8

y = 3x - 13

Solve the systems BY GRAPHING!

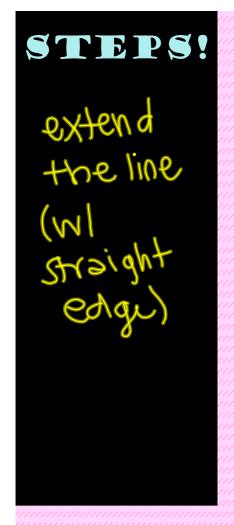
2



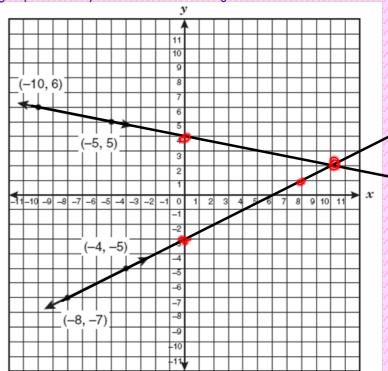
$$(-1,-1)$$

SOLUTION: _

$Y_1 = X $					
/_ =		2 <i>x</i> -	- 3	93	=-2 =-3
X	y1		y2		
Х		٧ı			2
-1 -1		24		1117	
-1 0 1 2 3 4		042003		140000	
3 4		3		-9 -1.	

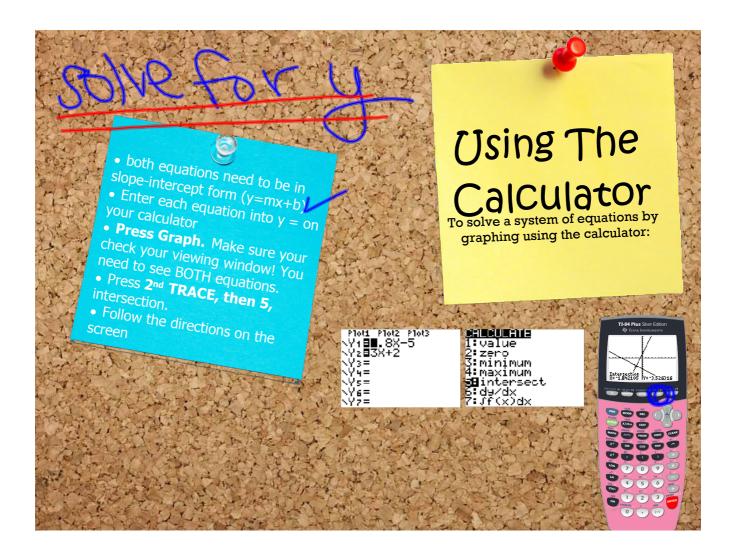


The graph of a system of linear equations is shown below

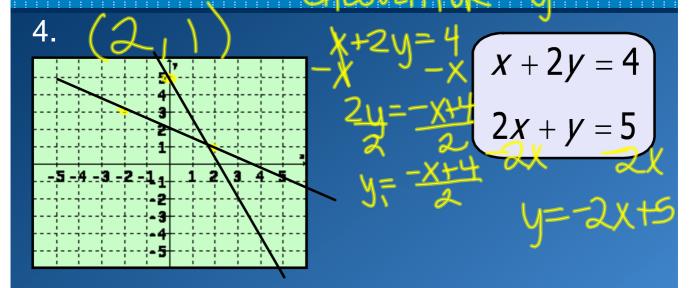


Which of the following is the solution to this system of linear equations?

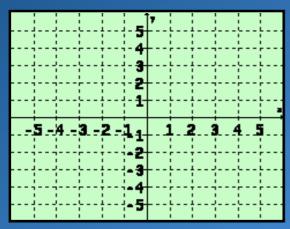
A (0,4) B (8,1) (0,-3) D



Find the solution set to the following equations. If there is not a solution, write No Solution CALOVIATOR U.—



6.



$$3x - y = 2$$

$$12x - 4y = 8$$

The RHS soccer team is selling snapback/Mats as a fundraiser. They contacted two companies. Hats Off charges a \$50 design fee and \$5 per hat. Top Stuff charges a \$25 design fee and \$6 per hat.

A) Write a system of equations that represents each company!

Let Statement
Let hat's be h.

Let that cost
be c.

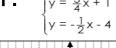
B) For how many hats will the cost be the same? What is the cost?

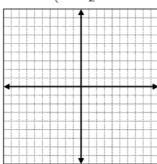
\$ 175

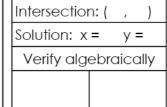
C) Explain when it is cheaper for the soccer team to use Top Stuff and when it is cheaper to use Hats Off.

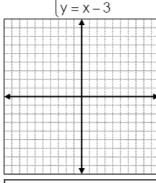
SOLVING BY GRAPHING

1 let's practice solving by graphing. don't forget to verify!! $\int_{y=\frac{3}{4}x+1}^{y=\frac{3}{4}x+1} \int_{y=-\frac{3}{4}x+4}^{y=-\frac{3}{4}x+4} \int_{y=\frac{1}{3}x+2}^{y=\frac{1}{3}x+2}$

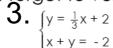


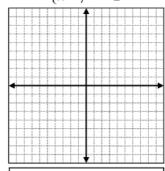






Intersection: (Solution: x =Verify algebraically

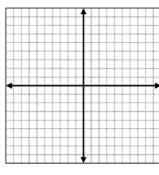




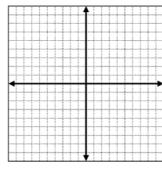
Intersection: (Solution: x =Verify algebraically



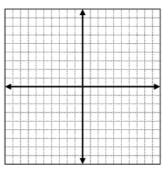
 $\int y = -1$ x = 2



solution: x =y = 5. y = x + 1y = x - 4



solution: x =y = 6. $\int y = -\frac{1}{3}x$



y **=** solution: x =

Algebra I - Unit 6: Topic 2 - Solving Systems by Graphing

13. Shelby solved the following system of equations and reported that x = 4 and y = 6. Solve the system of equations by graphing. Is she correct? Why or why not. Use the table to justify your answer.

$$y - x = 2$$
$$4y = 8x - 8$$

Х	<i>y</i> ₁	<i>Y</i> ₂

14. Coach Sureshot needs to hire an electrician to do some repair work at his new home. A-1 Electricians charge \$30 for a service call plus \$45 per hour while Excellent Electricians charge \$40 per hour plus a \$55 service call.

A) What equation could represent the cost for hiring A-1 Electricians?

B) What equation could represent the cost for hiring Excellent Electricians?

If the electricians only work for 2 hours, how much will each company charge him?

C) A-1 Electricians will charge _

Excellent Electricians will charge _____

If the electricians have to work for 8 hours, how much will each company charge Coach Sureshot?

- E) A-1 Electricians will charge _____
- F) Excellent Electricians will charge _____

When will both companies charge the same amount?

G) For ______ hours, both companies would charge ______



15. Which graph best represents a solution to this system of equations?

$$2x - 3y = 0$$

$$x + 2y = -7$$

