

Bellwork: Algebra 1

1. WELCOME BACK! :)
2. Write down your work for the week in your planner.
3. Write down your homework for the night.
4. You need your composition book and a ruler.
5. Answer the following question on your TUESDAY Bellwork:

How many solutions will the following system of equations have? How do you know?

$y = 2x + 6$ $y = 2x - 10$ $y = -3x - 10$ y intercept

1 solution because the slopes are different

1. 9



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2. 2



3. 4

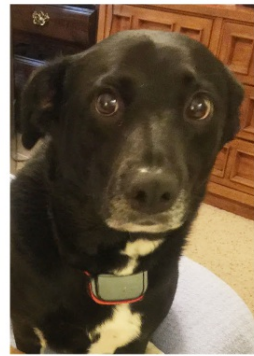


4. 11



5.

6



6. 2



7. 2



8. 60



9. 5



10. 1



example 1:

Solve the following system of linear equations by graphing.

$$y = mx + b$$

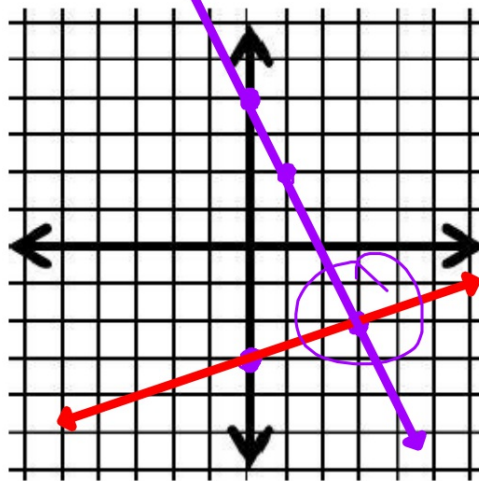
$$\begin{cases} y = \frac{1}{3}x - 3 \\ 2x + y = 4 \end{cases}$$

$$-2x$$

$$-2x$$

$$y = 4 - 2x \leftrightarrow -2x + 4$$

$$(3, -2)$$



$$\frac{-2}{1}$$

example 2:

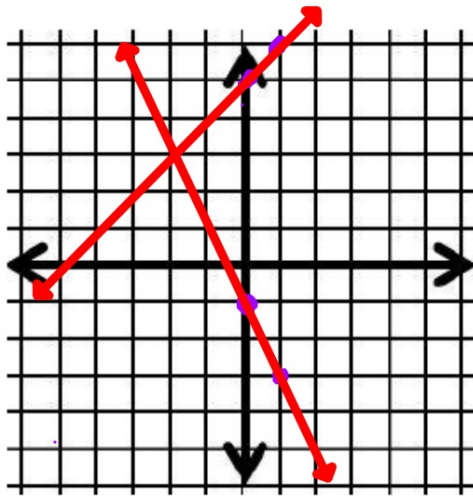
Solve the following system of linear equations by graphing.

$$\begin{cases} 2x + y = -1 \\ 3y - 15 = 3x \\ \quad \quad \quad +15 +15 \end{cases} \quad y = -2x - 1$$

$$\frac{3y = 3x + 15}{3 \quad 3 \quad 3}$$

$$y = x + 5$$

$$(-2, 3)$$

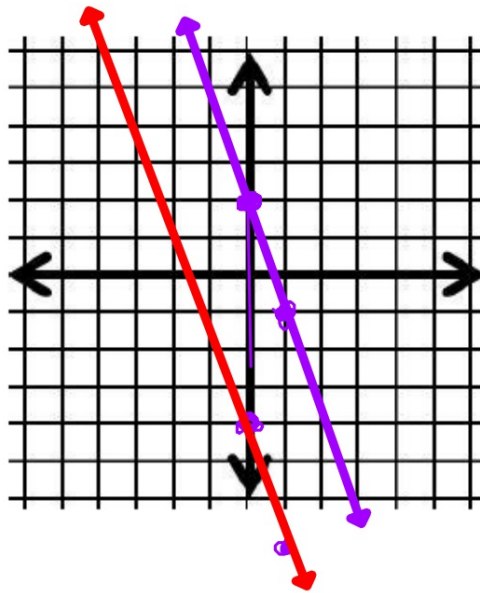


example 3:

Solve the following system of linear equations by graphing.

$$\begin{cases} y = -3x + 2 \\ 3x + y = -4 \end{cases}$$

$$y = -3x - 4$$



example 4:

Solve the following system of linear equations by graphing.

$$\begin{cases} -x + 2y = -2 \\ 4y = 2x - 4 \end{cases} \quad y = \frac{1}{2}x - 1$$

