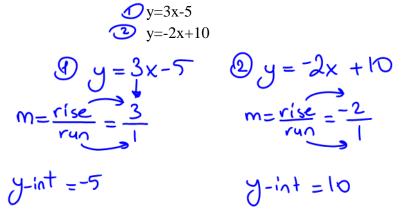


**1.** Solve the linear system graphically.



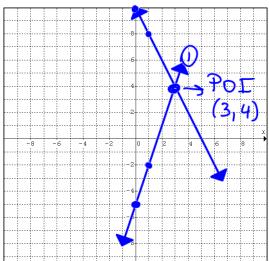
2. Solve the linear system graphically. () 5x - 2y = 10() y = -x + 2() 5x - 2y = 10() y = -x + 2() 5x - 2y = 10() y = -x + 2() 5x - 2y = 10() y = -x + 2

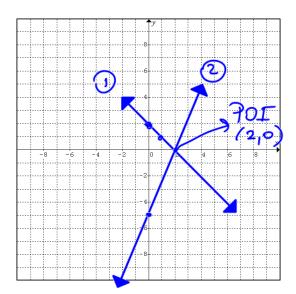
$$m = \frac{1}{7}$$

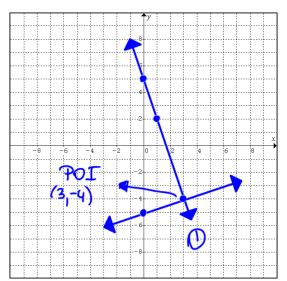
2

- **3.** Solve the linear system graphically.
  - **⑦** 3x+y=5

() 
$$y = -3x + 5$$
  
(2)  $\frac{3y}{3} = \frac{x}{3} - \frac{15}{3}$   
 $m = -\frac{3}{1}$   
 $y = \frac{1}{3}x - 5$   
 $y = \frac{1}{3}x - 5$ 







y = 2x + 5

4x - 2y + 10 = 0

C)

4. Determine the number of solutions to the following linear systems.

A) 
$$y = 3x - 4$$
  
 $y = 3x + 6$   
*NO* SOL  
**B**)  $5x - 2y - 10 = 0$  **IO**  
 $x + y = 2$   
 $5 - 2$ ,  $\frac{10}{2}$  ONE SOL

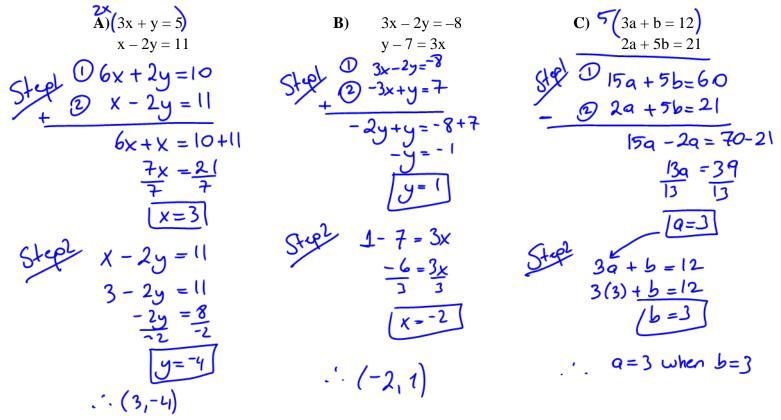
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5. Solve the linear system using substitution and check your answer.

$$y = 5x + 6$$

$$\frac{x + y^{-2}}{y^{-2}}, \frac{y + y^{-2}}{2}, \frac{y + y^{-2}}{2}, \frac{y^{-2} + y^{-2} + y^{-2} + y^{-2}}{2}, \frac{y^{-2} + y^{-2} + y^{-2} + y^{-2}}{2}, \frac{y^{-2} + y^{-2} + y^{$$

6. Solve the linear system using elimination and check your answer.



7. Kelly invested his savings of \$4800. She invested part in mutual funds, at 9% per year, and the rest in GIC's at 10% per year. After one year, the interest from the mutual funds was \$43 less than the interest from the GIC. How much was invested in each type of investment? (Remember "let" statements)

det "m" be the amount invested in mutual funds.  
het "g" " " " GC  
I m + g = 4800  
I 0.09m = 0.10g - 43 interest from mutual funds  
I 0.09m = 0.10g - 43 is 13 less than 6lc  
rearrange m = 4800-9  
then sub it in (2)  

$$0.09(4800-9) = 0.10g-43$$
  
 $432 - 0.09g = 0.10g-43$   
 $432 - 0.09g = 0.10g-43$   
 $432 + 43 = 0.10g + 0.09g$   
 $\frac{475}{0.19} = 0.19g$   
 $\frac{475}{0.19} = 0.$ 

- Review
  - **8.** Joey gets a summer job as a lab technician, and needs three litres of an 8% saline solution. He has a 5% saline solution and a 9% solution in the lab stock room. How many litres of the 5% and 9% solution should he mix together? (Remember "let" statements)

het "f" be 5% solution and "n" bc 9% solution

Solution

9. Jayden gets a summer job as a cashier at Canadian Tire. He has a total of \$580 in bills at the end of his shift. He has 76 bills, consisting of \$5 bills and \$10 bills. How many of each type does he have? (Remember "let" statements) "f" be the number of \$5 bills and "t" be the number of \$10 bills. you can divide the equation (5 by 5 because cach coefficient is a multiple + t = 76 Hotal bills + (0t = 580) + t = 76 Hotal value of the bills. 5f f+40 = 76 . There is 40 f+40 = 76 . In the second of the second se D f + t = 76-t =-40 t=40

Answers: