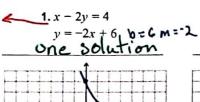
## **Chapter 6 Review**

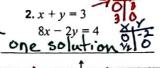
Form G -

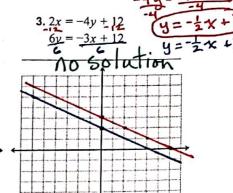
Solve each system by graphing (6.1).

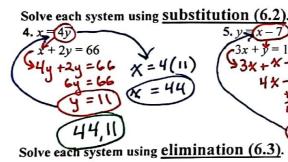
Tell whether the system has one solution, infinitely many solutions, or no solution.

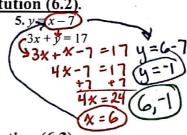
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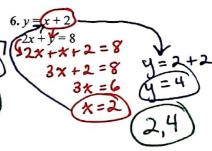


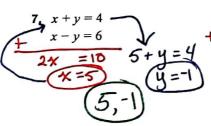


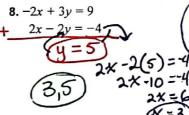


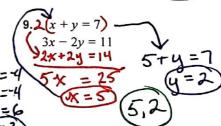








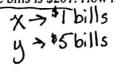




$$\frac{11.0.4x + 0.3y - 1.7}{0.7x - 0.2y - 0.8}$$

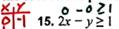
Write a system of equations to model each situation. Solve by any method. (6.4)

13. A wallet contains a total of 61 bills, a combination of \$1 bills & \$5 bills. The total value of the bills is \$201. How many bills of each type does the wallet contain?

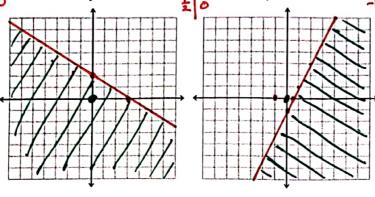


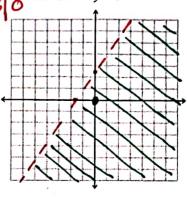


Graph each inequality in the coordinate plane (6.5).

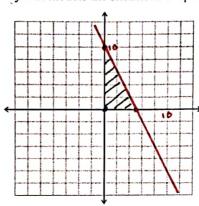


0 + 0 < 5 yes





17. For a party, you can spend no more than \$20 on cakes. Egg cake cost \$4 and cream cake cost \$2. Write the linear inequality that models the situation. Graph the inequality.

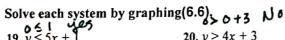


x = Egg Cake y = Cream Cake 44x + 2y = 20  $x = 0 + 0 \le 20$  x = 0 x

18. Error Analysis A student determined that (1, 1) is one of the solutions of the linear inequality  $y \le 2x - 3$ , as shown below. What error did the student make?

$$y \le 2x - 3$$
  
 $1 \le 2(1) + 3$   $\longrightarrow$   $| \le 2 + 1$   
 $| \le 1$ 

 $y \le 2x - 3$   $1 \le 2(1) + 3$   $\longrightarrow 1 \le 2 + -3$  The student did not consider the 3 to be a negative value.





20. 
$$y > 4x + 3$$
  
 $y \ge -2x - 1$ 

