

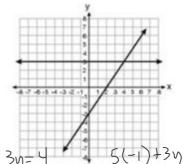
- 1. Becca is going to the store to buy new notebooks that cost \$1.75 each. She has only a \$20 bill and needs to save at least \$4 to buy a movie ticket. Write an inequality that could be used solve for the number of notebooks (x) that Becca can buy? $20 1.75 \times 24$
- 2. A concession stand sells hamburgers (h) for \$3 and hotdogs (d) for \$2. On Friday night they sold a total of 300 hamburgers and hotdogs and made \$740. Write a system of equations to determine how many of each they sold. $\Rightarrow 300$

$$3h + 2d = 740$$

3. Edith budgets a maximum of \$50 per month for her cell phone bill. Her cell phone provider charges \$30 a month as a base fee plus \$0.10 per minute for usage of the cell phone. Draw a number line that shows how many minutes Edith can use each month and stay within her budget.



4. What is the solution to the system of equations graphed below?



Solve the following system (hint: Elimination):

(-1,3)

): 5x + 3y = 4 5x + 3y = 4 5(-1) + 3y = 4 3(2x - y = -5) 6x - 3y = -15 -5 + 3y = 4 1/4

6. Solve the following system(hint: Elimination): 2x + 3y = 7 -2[2x+3y=7] - 4x - 6y = -14 4x + 6y = 14 - 4x +4x + 4x

7. What is the first step to solving this system by elimination? 8x-7y=-184x-6y=-24

Multiply the 2ND equation by -2

$$7x + y = -24$$
 find
$$7x - y = -18$$

9. Solve for this system of equations.

A class went to the theater for a field trip. A total of 38 tickets were purchased. If each adult ticket was \$6 and

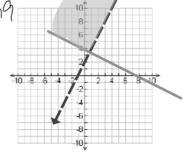
10. Graph the solution to this system?

$$\begin{array}{c} X + 2 y \ge 8 \\ 2 y \ge -X + 8 \\ \hline Y \ge -\frac{1}{2} X + 4 \end{array}$$

$$y-3x>1$$

$$+3x+3x$$

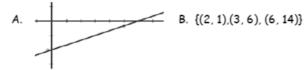
$$y > 3x+1$$

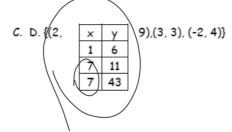


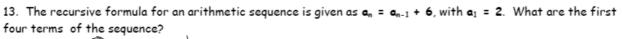
- 11. Use the table at right to determine the rate of change for the interval [0, 10].
 - A. \$1500 per week
- C. \$30 per week
- B. -\$1200 per week
- D. -\$30 per week

Weeks(x)	Amount owed in
	dollars (f(x))
<u></u>	1500
5	1350
10	1200
15	1050
20	900

12. Which of the following is NOT a function?

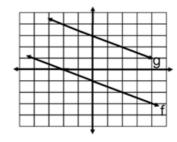


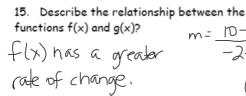


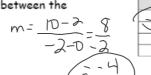


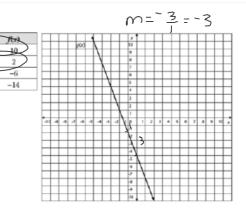
2 8 14 20

14. Given the graphs of f(x) and g(x) at right, which is the function rule for g(x) in terms of f(x)?









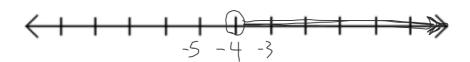
16. The school cafeteria sells two kinds of wraps: vegetarian and chicken. The vegetarian wrap cost \$1.00 and the chicken wrap cost \$1.80. Today they made \$98.80 from the 70 wraps sold. How many of the wraps sold were chicken? Let x = # of vegetarian wraps and let y = # of chicken wraps.

$$X+Y=70$$

 $X+1.80Y=98.8$

$$\frac{-x-y=-70}{.80y=28.8}$$

17. Graph the correct solution for the inequality -2x + 4 < 12?



18. Write the pair of inequalities shown in the graph?

$$y = mx + b$$

