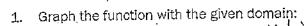
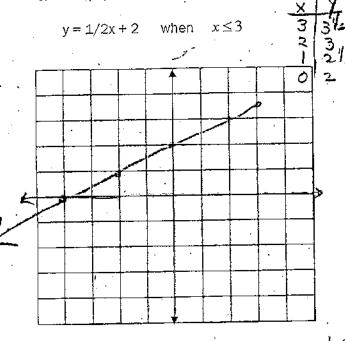
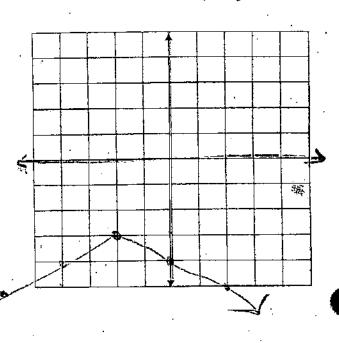
## Chapter 4-6 Review





2. Graph: 
$$y = -\frac{1}{2}|x+2|-3$$



4.) 
$$12x - 8y = 60$$

4.) 
$$12x - 8y = 60$$
  $slope = \frac{3}{2}$ 

5. Given that y varies directly with x, write an equation that relates x and y when x = 2 and y = -3

$$Y = a \times$$

$$-3 = 3$$



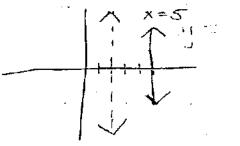
6. If  $f(x) = -3x^2 - 2x$ , find f(-1):

$$f(-1) = -3(-1)^{2} - 2(-1)$$
  
 $f(-1) = -3 + 2$   
 $f(-1) = -1$ 

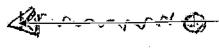
7. Write an equation in Standard Form that goes through (2,3)(-4,5)

$$3 = -\frac{3}{3}(2) + \frac{1}{3}$$
 $3 = -\frac{3}{3} + \frac{1}{3} + \frac$ 

- [y=-\frac{1}{3}x+\frac{1}{3}\frac{1}{3}
- or x+3y= a+3(a)=c
- 8. Write the equation of the line that goes throu and is parallel to x = 5.



- 2 3x+3≤-7 Solve the inequality and graph the solution on a number line:



Solve each compound inequality below. Graph the solution set on the number line provided:

10.. 
$$3x + 4 < 7$$
 or  $12 - 4x < 24$ 

$$3x < 3$$
 $x < 1$  or  $x > -3$ 

11. 
$$-9 < -3x + 6 < 9$$
  
 $3 > x - 2 > -3$   
 $5 > x > -1$ 

12. 
$$-2\left|\frac{1}{2} - 3w\right| + \frac{7}{2} = \frac{1}{2}$$

13.

$$-2|\frac{1}{2}-3w|=3$$

$$\frac{1}{3} - 3w = \frac{3}{2} \text{ or } \frac{1}{2} - 3w = -\frac{3}{2}$$

$$-3w = \frac{1}{3} - 3w = -2$$

$$-3w = -\frac{1}{3}$$

$$w = -\frac{1}{3}$$

$$w = \frac{2}{3}$$

$$12. -\frac{1}{3}$$

$$\frac{12}{3} - \frac{1}{3} = \frac{2}{3}$$

14. I want to make a snack mix of pretzels and Corn Chex. Pretzels come in bags that are 15 ounces and Corn Chex comes in boxes that are 12 ounces. I want my mix to be 300 ounces and I don't want any waste.

a. W	Write the standard form of an equation that models the possible combinations of boxes and bags to make							
my n	nix.	P	+	<u>.</u>	120	=	300	

b. List two possible combinations:	5p + 4c = 10	20)
1 bags of pretzels	25 boxes of Corn Chex	
2. 20 bags of pretzels	boxes of Corn Chex	

15. If you sign up for a gym membership during the month of May you are charged a joining fee of \$99 and a monthly membership of \$30 per month.

a., Write an equation that gives you the total cost in dollars of a membership as a function of the number of months of membership if you join in May.

c. Find the cost if you sign up for a 5 month membership.