Alg 1 Week 10 Wed Warm-Up

Skill 3: Solve and Graph Compound Inequalities on a Number Line

$$x + 8 \geq 9 \quad \textit{and} \quad -\frac{x}{7} \leq 1$$

Give the domain and range then decide if the relation is a function. You must explain why or why not!

(7,2) (7, -2) (9, 5) (8,4)

Domain: {

Range: {

Skill 4: Solve and Graph Absolute Value Inequalities and Equations

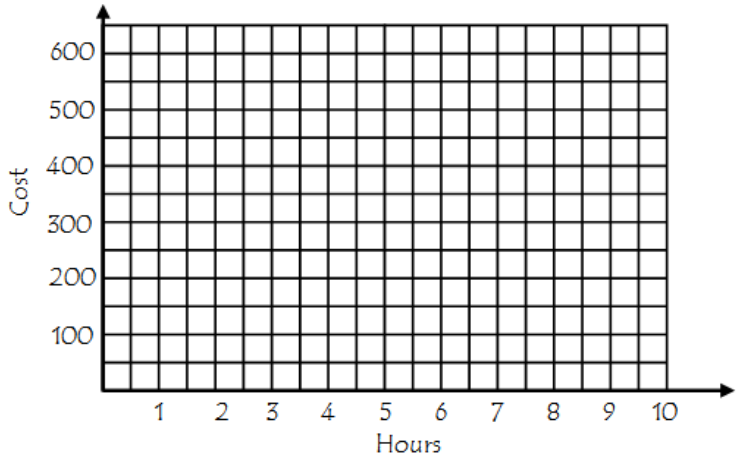
$$|n+1| - 3 > -2$$

Skill 5: Evaluate and Graph a Function

A plumber charges a $40 service call fee and $60 for every hour of labor. The function that represents this situation is $C(h) = 60h + 40$ where C is the total cost and h is the number of hours of labor. Graph this situation for up to 8 hours of labor.

h	C(h)=60h+40	C
0		
2		
4		
6		
8		

Use your graph to find out how many hours you can hire the plumber if you have $550.



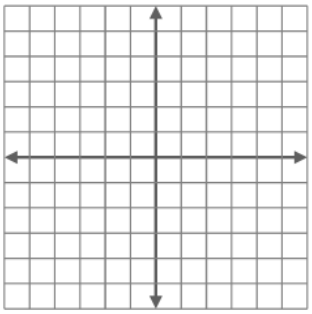
Alg1 Wk 10 Wed CW/HW **Chapter 3-4 Review** Name_____

may work in pairs

Graph each function below.

1. $y = 6 - 3x$

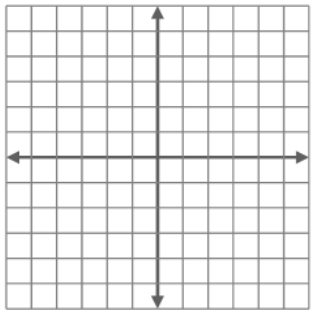
x	y



Circle on the graph the value of y when x=3

2. $d(t) = |8 - 2t|$

t	d(t)

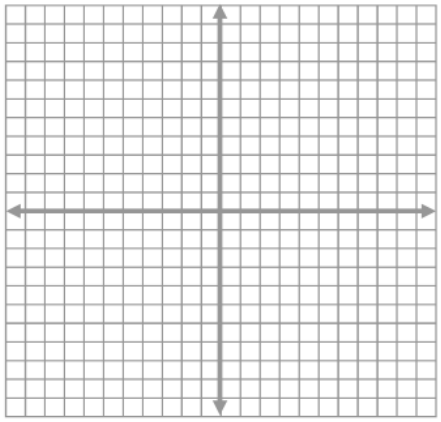


Circle on the graph the value of t when d(t)=6

3. $h(t) = -2t^2 - 4t + 6$

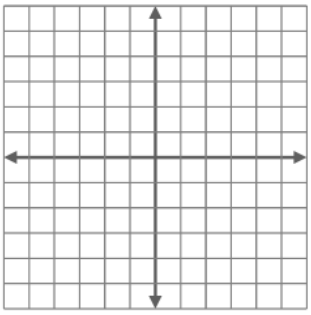
Use the graph to find h(t) when t=3

t	h(t)



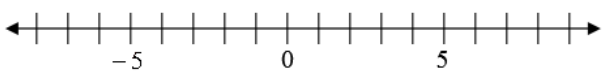
4. $f(x) = -1 + \sqrt{x+4}$

x	f(x)



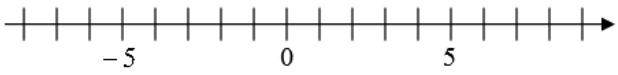
Solve and graph the equation on the number line:

5. $|8 - 2t| = 4$



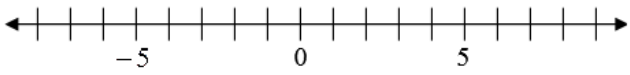
Solve each inequality and graph the solution set on a number line:

6. $|8-2t|>4$



Solution_____

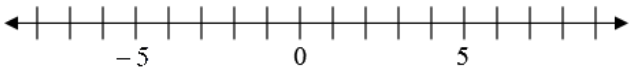
7. $|3t-6|\leq 9$



Solution_____

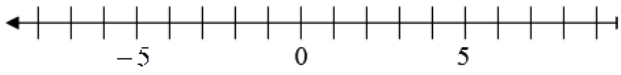
Solve the inequality and graph it on the number line

8. $3 < 2p - 3 \leq 12$



Solution_____

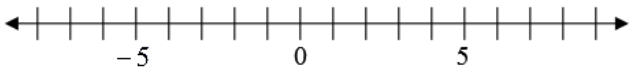
9. $9 - c < 2 \ \ or - 3c > 15$



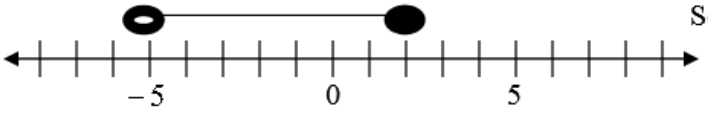
Solution_____

10. $-3(2x-4)-1<-25+6x$

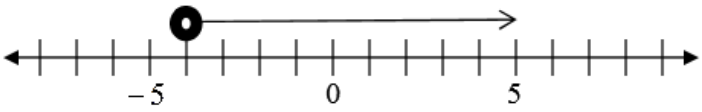
Solution_____



Write an inequality to describe the given line graph.

11. 

Solution_____

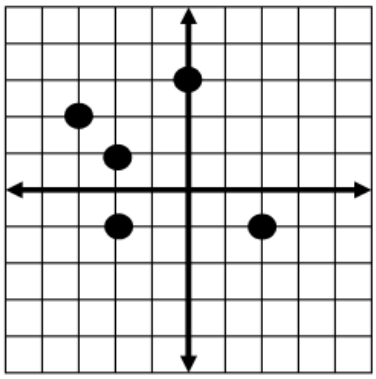
12. 

Solution:_____

13.

Solution:_____

Give the domain and range then decide if the relation is a function. You must explain why or why no

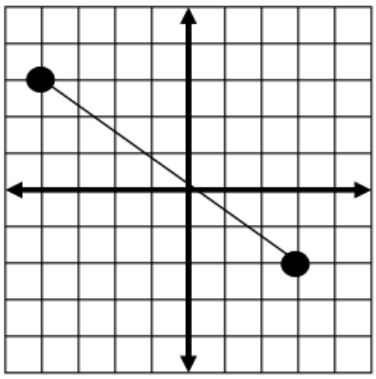
14. 

Domain:_____

Range:_____

Is it a function? Y or N

Why:_____

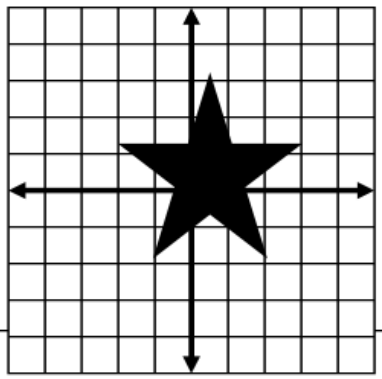
15. 

Domain:_____

Range:_____

Is it a function? Y or N

Why:_____

16. 

Is it a function? Y or N

Why:_____