SRHS Math 1 - Assignment #3.3b Name_____

I. Solve each equation.

1) $\frac{x}{12} = -2$

II. Solve each equation.

2) $1 + 6k + 7k = 1$

III. Solve each equation.

3) $2n + 2 = 11 - 7n$

IV. Solve each equation.

4) $2(1 - r) = 4r - 22$

V. Solve each equation.

5) $7 = 5x - 5x$

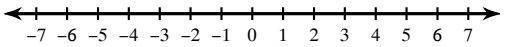
VI. Solve each equation.

6) $\left|\frac{k}{2}\right| + 3 = 4$

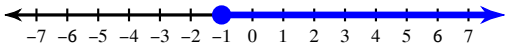
7) $|k - 1| + 7 = 9$

VIII. Draw a graph for each inequality.

8) $x < -2$



IX. Write an inequality for each graph.

9) 

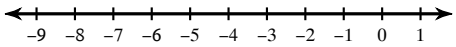
X. Write an equation or inequality for each.

10) Five more than a number squared is 14.

11) 8 is less than the quotient of x and 11.

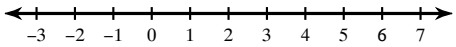
XI. Solve each inequality and graph its solution.

12) $-84 \leq 14n$



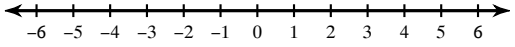
XII. Solve each inequality and graph its solution.

13) $v - 3v \leq -8$

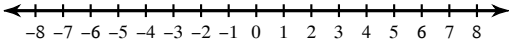


Solve each compound inequality and graph its solution.

14) $-8 < 3n + 1 < 7$



15) $2x + 8 \leq 2$ or $6x + 4 > 28$



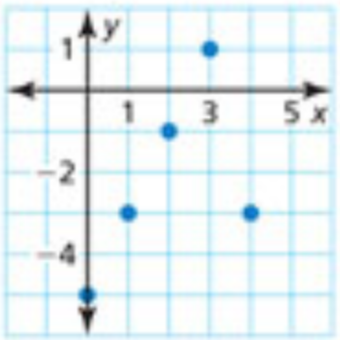
Determine whether the relation is a function. Explain. *(Section 3.1)*

16.

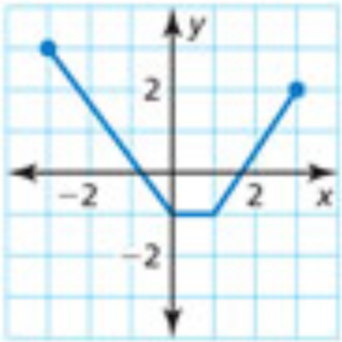
Input, x	-1	0	1	2	3
Output, y	0	1	4	4	8

Find the domain and range of the function represented by the graph. *(Section 3.1)*

17.



18.



Determine whether the graph, table, or equation represents a *linear* or *nonlinear* function. Explain. *(Section 3.2)*

19.

x	y
-5	3
0	7
5	10

Determine whether the domain is *discrete* or *continuous*. Explain. *(Section 3.2)*

20.

Depth (feet), x	33	66	99
Pressure (ATM), y	2	3	4