SRHS Math 1 - Assignment #4.0a

Name_____

I. Solve each equation.

1) $x - 20 = -23$ $\{-3\}$

II. Solve each equation.

2) $3x + 6 - 3x = 6$ { All real numbers. }

III. Solve each equation.

3) $3k + 4 = 14 + 7k - 2k$ $\{-5\}$

IV. Solve each equation.

4) $4 + 2m = -6m + 2(m + 2)$ $\{0\}$

V. Solve each equation.

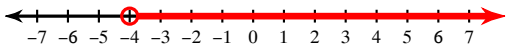
5) $-5p + 6p = 2$ $\{2\}$

VI. Solve each equation.

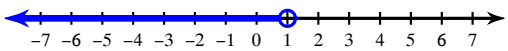
6) $|6 + r| + 7 = 18$ $\{5, -17\}$

VII. Draw a graph for each inequality.

7) $n > -4$



VIII. Write an inequality for each graph.

8) 

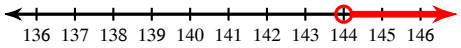
$b < 1$

IX. Write an equation or inequality for each.

9) Six more than a number x is greater than seven less than a number x $x + 6 > x - 7$

X. Solve each inequality and graph its solution.

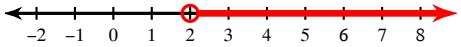
10) $12 < \frac{b}{12}$



$b > 144$

XI. Solve each inequality and graph its solution.

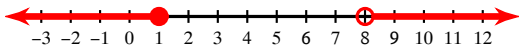
11) $6 < -2n + 5n$



$n > 2$

XII. Solve each compound inequality and graph its solution.

12) $2 + x > 10$ or $4x - 5 \le -1$

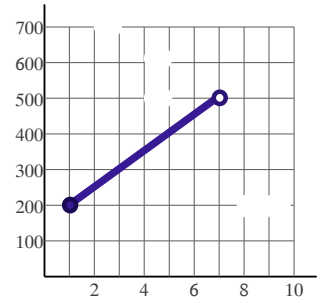


$x > 8$ or $x \le 1$

XIII. Determine if the realation is a fucntion. State 'yes' or 'no.'

13) (2, 8) , (4, 5), (4, 6) , (7, 8) , (9, 11) , (10, 0) No.

XIV. State the domain and range of the relation.

14) 

Domain: $1 \le x < 7$
Range: $200 \le y < 500$

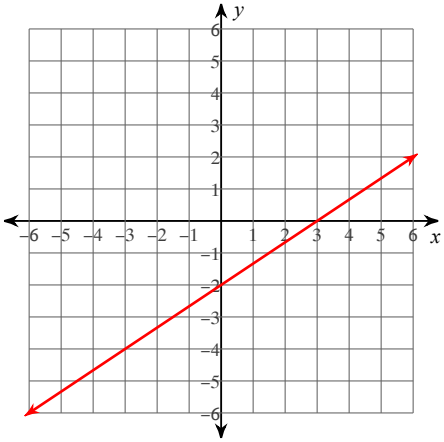
XV. Solve as directed.

15) Evaluate $f(x) = 3x + 2$ when $x = 10$ 32

16) For $f(x) = 14x + 3$, find the value of x for which $f(x) = 73$ 5

XVI. Sketch the graph of the linear function using the given intercepts.

17) x-intercept = 3, y-intercept = –2

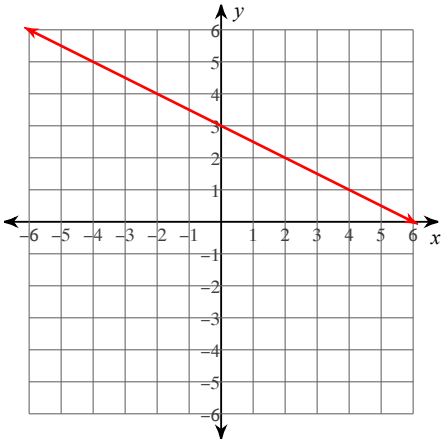


XVII. Find the x and y intercepts of the given function.

18) $5x - 30y = 60$ x-int: 12 and y-int: - 2

XVIII. Sketch the graph of each line.

19) $y = -\frac{1}{2}x + 3$



20) $y = -3$