SRHS Math 1 - Assignment #Review 3A Name_____

I. Solve each equation.

1) $17 + m = 25$

$\{8\}$

II. Solve each equation.

2) $4n - 4n = -7$

No solution.

III. Solve each equation.

3) $-3b + 12 = -5b + 6$

$\{-3\}$

IV. Solve each equation.

4) $-25 - 2n = -3(n + 6)$

$\{7\}$

V. Solve each equation.

5) $x + 8 - 4x = 17$

$\{-3\}$

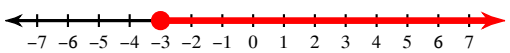
VI. Solve each equation.

6) $9|p + 2| = 18$

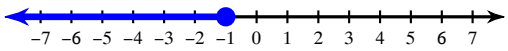
$\{0, -4\}$

VII. Draw a graph for each inequality.

7) $x \geq -3$



VIII. Write an inequality for each graph.

8) 

$m \leq -1$

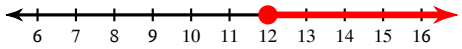
IX. Write an equation or inequality for each.

9) Five less than a number x is greater than 8.

$x - 5 > 8$

X. Solve each inequality and graph its solution.

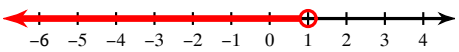
10) $4 \le \frac{a}{3}$



$a \ge 12$

XI. Solve each inequality and graph its solution.

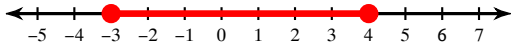
11) $1 - 3k - 2k > -4$



$k < 1$

XII. Solve each compound inequality and graph its solution.

12) $8k + 1 \le 33$ and $4k - 8 \ge -20$



$-3 \le k \le 4$

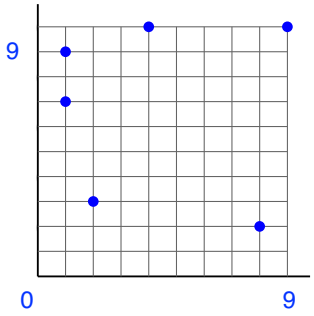
XIII. Determine if the relation is a function. State YES or NO. Explain why or why not.

13) (2, 8) , (4, 6) , (7, 8) , (9, 11) , (10, 0)

Yes.

XIV. State the domain and range of the relation.

14)



Domain: 1, 2, 4, 8, 9

Range: 2, 3, 7, 9, 10

XV. Solve as directed.

15) Evaluate $f(x) = 2x - 5$ when $x = 11$

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16) For $f(x) = 4x + 2$, find the value of x for which $f(x) = 94$

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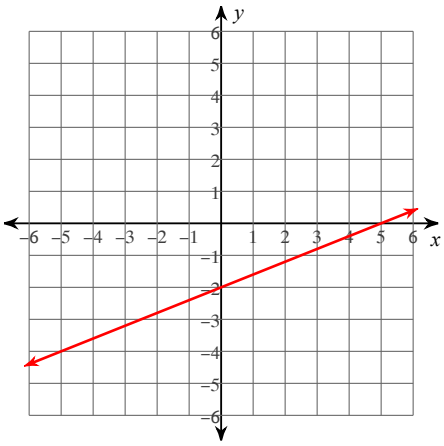
XVI. Sketch the graph of the linear function using the given intercepts.

17) x-intercept = 5, y-intercept = –2



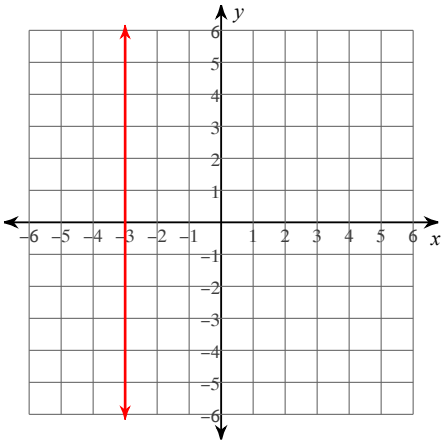
XVII. Find the x and y intercepts of the given function.

18) $3x - 8y = -48$

x-int: -16 and y-int: 6

XVIII. Sketch the graph of each line.

19) $x = -3$



20) $y = \frac{3}{4}x + 2$