SRHS Math 1 - Assignment #3.1b

Name_____

I. Solve each equation.

1) $17m = -34$

$\{-2\}$

II. Solve each equation.

2) $-6k + 6k = 0$

{ All real numbers. }

III. Solve each equation.

3) $-9 + 5x - 6 + 3 = 8x - 6x$

$\{4\}$

IV. Solve each equation.

4) $-1 + 2(r + 7) = 7r - 12$

$\{5\}$

5) $4(n - 3) = -5 - 3n$

$\{1\}$

V. Solve each equation.

6) $-5r + 5r = 3$

No solution.

VI. Solve each equation.

7) $-2 + \left|\frac{k}{7}\right| = -1$

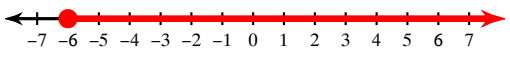
$\{7, -7\}$

8) $9 + |x - 10| = 18$

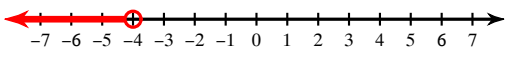
$\{19, 1\}$

VIII. Draw a graph for each inequality.

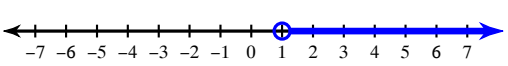
9) $n \geq -6$



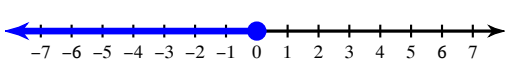
10) $x < -4$



IX. Write an inequality for each graph.

11) 

$n > 1$

12) 

$a \leq 0$

X. Write an equation or inequality for each.

13) Five more than a number squared is 14.

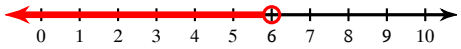
$x^2 + 5 = 14$

14) 8 is less than the quotient of x and 11.

$8 < \frac{z}{11}$

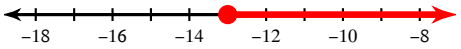
XI. Solve each inequality and graph its solution.

15) $\frac{2}{5} > \frac{n}{15}$



$n < 6$

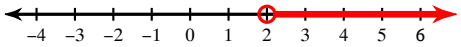
16) $-3m \leq 39$



$m \geq -13$

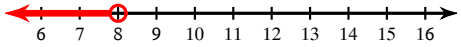
XII. Solve each inequality and graph its solution.

17) $1 + 2v + 4v > 13$



$v > 2$

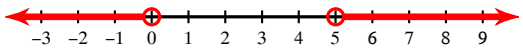
18) $-2 + 4n < 3(n + 2)$



$n < 8$

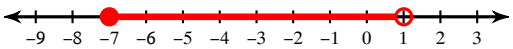
Solve each compound inequality and graph its solution.

19) $5 + 2x < 5$ or $5x - 8 > 17$



$x < 0$ or $x > 5$

20) $-10 < -4x - 6 \leq 22$



$-7 \leq x < 1$