SRHS Math 1 - Assignment #2.1b

Name_____

Period____

I. Solve each equation.

1) $24 = p + 11$

$\{13\}$

2) $-3a = 45$

$\{-15\}$

3) $-33 = p - 19$

$\{-14\}$

4) $\frac{n}{12} = -14$

$\{-168\}$

II. Solve each equation.

5) $1 + 2x + 7 = -6$

$\{-7\}$

6) $4k - k = -15$

$\{-5\}$

7) $-r - 7 - 3r = -3$

$\{-1\}$

8) $7 - 3x + 8 = 3$

$\{4\}$

III. Solve each equation.

9) $8p - 1 = 3 + 6p$

$\{2\}$

10) $2 + 6a - 6a = 3a + 2 - 6$

$\{2\}$

11) $4x + 7 = 6x - 7$

$\{7\}$

12) $8 + 3x - 4x = 2x - 7$

$\{5\}$

IV. Solve each equation.

13) $-3(-5x + 8) = -7x + 20$

$\{2\}$

14) $-2(1 - 4n) + 2 = 14 + 6n$

$\{7\}$

15) $-6(r - 2) + 7 = 16 - 3r$

$\{1\}$

16) $30 + x = 5(-2 - 8x) + x$

$\{-1\}$

V. Solve each equation.

17) $3n - 3n = -1$

No solution.

18) $5x - 2 = 2x + 3x - 2$

{ All real numbers. }

19) $3y + 4y - 1 = 2y + 5y - 1]$

{ All real numbers. }

20) $2x + 3x + 2 = 3x + 2x + 3$

No solution.

VI. Solve each equation.

21) $|x - 9| + 2 = 16$

$\{23, -5\}$

22) $|5p| + 1 = 31$

$\{6, -6\}$

23) $|9a| + 7 = 88$

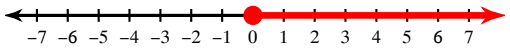
$\{9, -9\}$

24) $|x + 6| + 1 = 4$

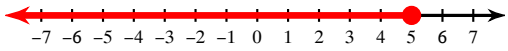
$\{-3, -9\}$

VIII. Draw a graph for each inequality.

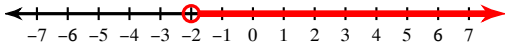
25) $n \geq 0$



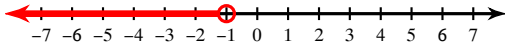
26) $x \leq 5$



27) $x > -2$

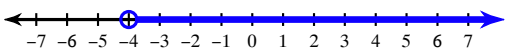


28) $b < -1$



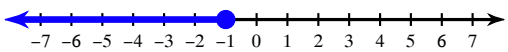
Write an inequality for each graph.

29)



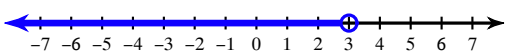
$x > -4$

30)



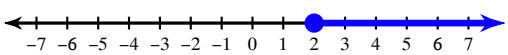
$x \leq -1$

31)



$b < 3$

32)



$m \geq 2$