

Tri Final Review Topic 1 Day 1

Date _____ Period _____

Solve each equation.

1) $7(-2x - 6) = -18 - 8x$

2) $-5(x + 8) + x = -28 + 2x$

3) $-3(5 + 3x) + 3 = -7x - 28$

4) $7(x - 7) = -7 - 7x$

5) $-(-5x - 4) = -2x - 3$

6) $40 + 5r = -8(1 - 7r) - 3r$

Solve each compound inequality and graph its solution.

7) $2 + 8v > 8 + 10v$ or $9 - v \geq 4v - 1$

8) $3 - 10x \leq -5 - 6x \leq 5 - 7x$

$$9) -3r + 7 \leq 7 + 9r \text{ or } 3r - 5 > 6r + 4$$

$$10) 6x + 10 > 7x - 1 > 4x - 7$$

$$11) 8 - 2b > -3b + 6 > 7b - 4$$

$$12) 3 + 4n \leq 3n + 9 < 9 + n$$

Solve each equation.

$$13) |3k - 8| - 8 = 18$$

$$14) 6 + 6|-7p - 3| = 108$$

$$15) -|3m - 5| + 4 = 4$$

$$16) 8 - 10|4n - 2| = -12$$

$$17) 5|5 - 10a| - 8 = 117$$

$$18) 3 + 4|5n + 2| = -9$$

Answers to Tri Final Review Topic 1 Day 1

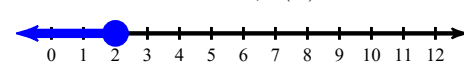
1) $\{-4\}$
5) $\{-1\}$

2) $\{-2\}$
6) $\{1\}$

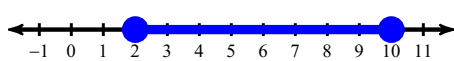
3) $\{8\}$

4) $\{3\}$

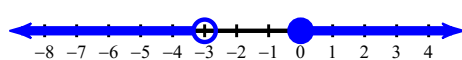
7) $v \leq 2$:



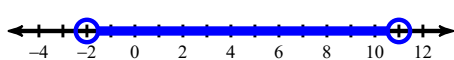
8) $2 \leq x \leq 10$:



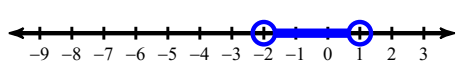
9) $r \geq 0$ or $r < -3$:



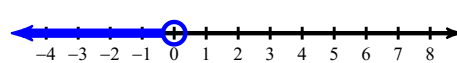
10) $-2 < x < 11$:



11) $-2 < b < 1$:



12) $n < 0$:



13) $\left\{\frac{34}{3}, -6\right\}$

14) $\left\{-\frac{20}{7}, 2\right\}$

15) $\left\{\frac{5}{3}\right\}$

16) $\{1, 0\}$

17) $\{-2, 3\}$

18) No solution.