

## Inequalities &amp; Absolute Value Equations Review

Solve each inequality and graph its solution.

1)  $44 \geq 8p + 4$

2)  $80 > -10(a - 4)$

3)  $\frac{-9 + p}{22} \leq -1$

4)  $\frac{k}{5} - 5 < -5$

5)  $-6(7 + a) \geq -96$

6)  $\frac{n + 2}{5} \leq 2$

**Solve each compound inequality and graph its solution.**

7)  $\frac{b}{10} \geq -1$  and  $b - 10 \leq -12$

8)  $-4x \leq -36$  or  $x - 4 \leq -5$

9)  $-3 \leq n - 8 < -7$

10)  $\frac{n}{2} > -4$  or  $n - 9 < -16$

**Solve each equation.**

11)  $\left| \frac{n}{8} \right| = -1$

12)  $|v - 10| = 19$

$$13) \quad |-10x| = 80$$

$$14) \quad |a - 2| = 2$$

$$15) \quad |p - 7| - 2 = 15$$

$$16) \quad |10 + 4a| + 8 = 10$$

$$17) \quad |5n - 10| + 5 = 30$$

$$18) \quad |4n| - 7 = -7$$

$$19) \quad -9|5a| - 9 = -99$$

$$20) \quad -9 + 4|9b| = 63$$