

## Absolute Value Equations

**Solve each equation.**

1)  $10 + 10|10x - 2| = 30$

2)  $9 + 5|5a + 7| = 99$

3)  $2|6 + 5x| - 3 = 49$

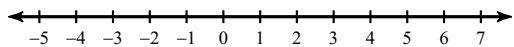
4)  $3|v + 8| - 1 = 17$

5)  $7|5 - 4k| + 4 = 81$

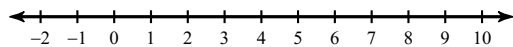
6)  $2|8 - 10r| - 5 = -5$

Solve each inequality and graph its solution.

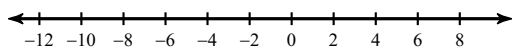
7)  $9|-7 + 10x| < -63$



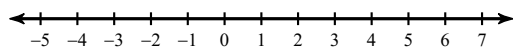
8)  $-9|6 - 10n| \geq -54$



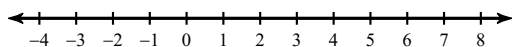
9)  $-3|4 + 2n| \geq -48$



10)  $2|3 - 4n| \leq 6$



11)  $-7|9r + 6| > -21$



12)  $|-2 + 2n| - 10 < -6$

