

Equations and Inequalities Follow-Up

Solve each equation.

1) $-9 + 2|-5x + 10| = 51$

2) $-7 + |3x - 4| = -7$

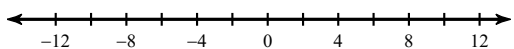
3) $9 + 8|10 - 9m| = 89$

4) $-9 + |4 + 6x| = 43$

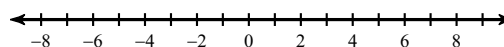
5) $\frac{14}{5} \cdot \left| -\frac{5}{4}p \right| + \frac{5}{3} = \frac{239}{30}$

Solve each inequality and graph its solution.

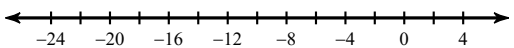
6) $2 + \left| \frac{x}{2} \right| \geq 6$



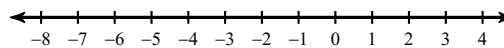
7) $-2|-6k| - 10 < -58$



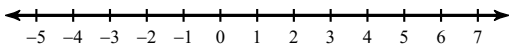
8) $5 + 8|10 + x| < 109$



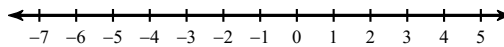
9) $-7 - 4|10n - 6| \leq 17$



10) $2 + 3|-8 + 5a| < -37$



11) $5|8n + 8| + 5 \leq 45$



Solve each equation.

12) $4 + 5(1 + 4a) = -111$

13) $117 = 3(7 - 8b)$

14) $7(2n - 1) = 91$

15) $-\frac{101}{10} = -\frac{16}{5}m - \frac{1}{6}m$

16) $-\frac{4}{3}k + \frac{3}{2}k = -\frac{1}{3}$

17) $-2(p + 6) + p = 2(p - 3) - 2p$

18) $-4(1 + 6r) = -6(4 + 3r) - r$

19) $3(x - 4) = 2(x - 4)$