

1. Write the equation (in the stated form) of a line passing through (2,-6) and (-1,7). Show all work.

a) POINT SLOPE

b) SLOPE-INTERCEPT

c) STANDARD

Solve and graph the following equations or inequalities on a number line.

2. $1 < \left| 2 - \frac{x}{3} \right|$



Solution: _____

3. $-\frac{1}{4} |8m - 4| \leq -3$



Solution: _____

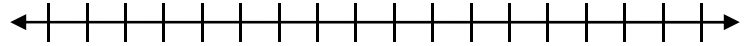
4. $\frac{2}{3} \left| 5 \left(\frac{1}{5} r - 2 \right) \right| = -12$



Solution: _____

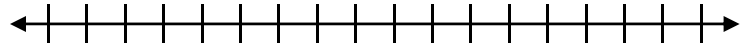
Solve and graph each inequality on the number line

5. $\frac{5}{3} - \frac{1}{4}x \geq -\frac{2}{3}x + \frac{1}{6}$



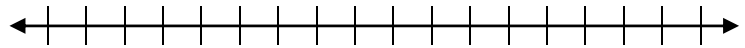
Solution: _____

6. $3x - 1 > 2$ or $2x + 6 \leq 2$



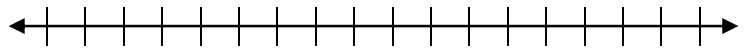
Solution: _____

7. $4z + 6 > -10$ and $-3z - 5 > -17$



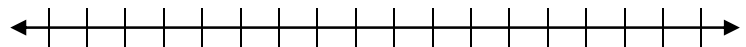
Solution: _____

8. $10x - 4 < 6$ or $4x - 12 < 8$



Solution: _____

9. $n + 1 < 4$ and $n - 1 > 4$



Solution: _____