

HWK #1: Solving Linear Equations and Inequalities Due 5/9

Solve each equation.

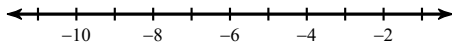
1) $10n - n = 12(n + 8) + 9(-3n + 8)$

2) $4 - 2(1 - 9n) = 4(4n + 3)$

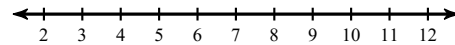
3) $-7x + 2(6x + 7) = 3(x - 4)$

Solve each inequality and graph its solution.

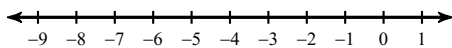
4) $165 \geq -3(7r + 1)$



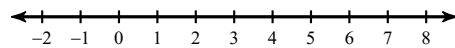
5) $-86 \leq -2(3 + 5n)$



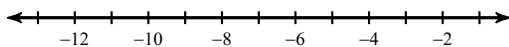
6) $7(1 + 2m) + 3(1 - 3m) > 6m - 3m$



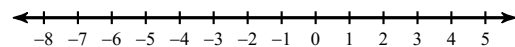
7) $4b - (b - 2) \geq -2(b - 6)$

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

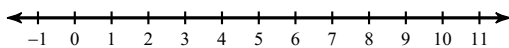
8) $-7 < 5 + 3r < -4$



9) $-6m + 6 < 6$ or $6m - 5 < -29$



10) $2 \leq 2n - 4 \leq 4$



11) $3r - 5 < -14$ or $-5r + 6 \leq -24$

