

## Solving Inequalities with Variables on Both Sides

Solve each inequality and graph its solution.

1)  $4(n-8) > -32 - 3n$

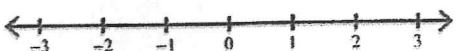


$$\begin{array}{r} 4n - 32 > -32 - 3n \\ +3n \quad +3n \\ \hline 7n - 32 > -32 \\ 7n > 0 \quad n > 0 \end{array}$$

2)  $40 + 4k > 2 + 3(4k - 6)$



3)  $7(1 + 7x) < -39 + 3x$



4)  $8(1 + 6n) > -32 + 8n$



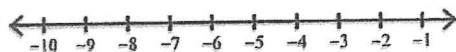
5)  $-22 + 3x > -7 + 5(-4x - 3)$



6)  $2(4n - 1) - 2n > -2n + 22$



7)  $-35 + 8b \leq 2(8b + 4) - 3$



8)  $5v - 20 \geq -(2v + 6)$

