

## Solving Inequalities Worksheet #1

Solve each inequality and graph its solution.

1)  $6(-6 + p) > -150$

2)  $84 \leq -3(-5 + n)$

3)  $-10(-10 + x) < -30$

4)  $-1 > \frac{n - 12}{36}$

5)  $8(7 + k) > -56$

6)  $15 < -4r - 1$

$$7) 23 - 7m < -2m + 2(1 + 8m)$$

$$8) 25 - 5n \geq 6(1 - 4n)$$

$$9) 3a + 6(8a - 8) \geq -3a + 6$$

$$10) 7(r - 7) \leq -6r - 36$$

$$11) -6 + 4(7k + 3) < 6(1 - 4k)$$

$$12) b - 2 + 6 \geq -8(1 + 3b) - 4(1 - 6b)$$