

WS 1-3 - Solving Equations

Solve each equation.

1) $-14p = -112$

2) $-13m = -221$

3) $p + (-7) = -9$

4) $143 = -13n$

5) $6 = \frac{n}{-21} + 5$

6) $73 = -4 - 11x$

7) $-4 = 3 + \frac{x}{-3}$

8) $22 = 11(m + 8)$

9) $1 - 5p + 5 = -14$

10) $-3 = 2 + 5n - 4n$

11) $5a = 9a + 2a$

12) $6 + 4r + 7 = -19 + 8r$

13) $-234 = 7(8n - 6) - 8n$

14) $-770 = -10(7x + 8) + x$

$$15) -9(9 - 4v) = 5v + 12$$

$$16) -(1 - 2m) = 6m - 37$$

$$17) 86 = 2(a + 9) + 6(4 - 4a)$$

$$18) -10(-6m - 9) + 7(7 + 7m) = 30$$

$$19) -10(v - 1) = 4(8 - 3v)$$

$$20) 2(1 - 7r) = -4r - 10(r + 9)$$

Solve each inequality.

$$21) -6 - 4(3x + 5) \leq -122$$

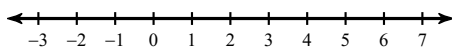
$$22) 85 \geq 7 - 6(m - 5)$$

$$23) -5(-7x - 1) > 39 + x$$

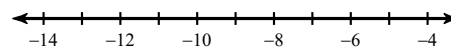
$$24) 7(n - 6) + 6n \geq 2n + 24$$

Solve each inequality and graph its solution.

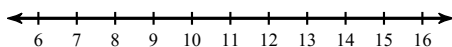
$$25) 4(6x - 7) > 92$$



$$26) -82 < 8(n - 2) - 2$$



$$27) -164 \geq -2 - 6(3 + 3n)$$



$$28) 8(r + 6) \leq 96$$

