

### Solving Equations with Variables on Both Sides of the Equal Sign

Solve each equation.

1)  $30 + 6v = 4v - 3(6 - 6v)$

$$\begin{array}{r}
 30 + 6v = 4v - 18 + 18v \\
 30 + 6v = 22v - 18 \\
 -6v \quad -6v \\
 \hline
 30 = 16v - 18 \\
 48 = 16v \\
 \frac{48}{16} = \frac{16v}{16} \\
 3 = v
 \end{array}$$

2)  $-11 - r = 6(2r - 4)$

3)  $-4(-k - 3) - 2 = 16 - 2k$

4)  $-5(2 + 4m) = -10 + 2m$

5)  $-(1 + 4n) = -3 - 3n$

6)  $20 + 4n = 6n - 2(-4 - n)$

7)  $4(3x + 2) = 26 + 6x$

8)  $12 - n = -4(5n - 3)$

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