

Name _____

Equations With variables on Both Sides

Date _____ Period _____

Solve each equation.

1) $b + 3 = 15 - 2b$

2) $-2n + 4 = -4n + 16$

3) $-4p - 18 = 8(p + 1) + p$

4) $6(n - 1) = -19 - 7n$

5) $8a - 23 = 5(1 - 4a)$

6) $27 - 2x = -5x - 2(4x + 3)$

7) $-7(x + 2) = -8(x + 1)$

8) $-1 - 2(4r - 2) = -5 + 2(r + 4)$

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Solving Multi-Step Equations

Solve each equation.

1) $18 + 3n = -4(3 - 2n)$

2) $-5m + 19 = -2(5m + 1) + 2m$

3) $-22 + x = 5(x - 6)$

4) $3(v + 5) = 15 + 8v$

5) $\frac{14}{3} = -\frac{3}{2}x - \frac{7}{3} - 2x$

6) $\frac{2}{3} = \frac{4}{3}r - r$

7) $-\frac{19}{3} = -\frac{7}{3}r + 1 - \frac{4}{3}r$

8) $-1.1(r - 1.2) = -20.68 - 5.5r$

9) $5.2(a + 4.1) = 0.14a - 19.16$

10) $1.4x - 36.003 = 5.7(x - 1.79)$