

Solving Multi-Step Equations

Like Terms - Negative Coefficients

Name: _____ Date: _____



Solve the equations.

(1) $2x - 26 + x = 19$

(2) $x - 3x - 5 = 11$

(3) $-56 + 3x + 4x = 21$

(4) $-4x - 56 - 5x = 16$

(5) $-4x - 9 + x = 18$

(6) $4x - 35 + x = 35$

(7) $6x + 3x - 50 = 76$

(8) $-4x - 8 + 5x = 3$

(9) $-2x - 7 + x = 5$

(10) $-4x - x - 31 = 39$

(11) $-4x - 27 + x = 18$

(12) $-8 - 4x + 5x = 4$

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ANSWER KEY



Solve the equations.

$$\begin{aligned}(1) \quad 2x - 26 + x &= 19 \\ -26 + 3x &= 19 \\ 3x &= 45 \\ x &= 15\end{aligned}$$

$$\begin{aligned}(2) \quad x - 3x - 5 &= 11 \\ -5 - 2x &= 11 \\ -2x &= 16 \\ x &= -8\end{aligned}$$

$$\begin{aligned}(3) \quad -56 + 3x + 4x &= 21 \\ -56 + 7x &= 21 \\ 7x &= 77 \\ x &= 11\end{aligned}$$

$$\begin{aligned}(4) \quad -4x - 56 - 5x &= 16 \\ -56 - 9x &= 16 \\ -9x &= 72 \\ x &= -8\end{aligned}$$

$$\begin{aligned}(5) \quad -4x - 9 + x &= 18 \\ -9 - 3x &= 18 \\ -3x &= 27 \\ x &= -9\end{aligned}$$

$$\begin{aligned}(6) \quad 4x - 35 + x &= 35 \\ -35 + 5x &= 35 \\ 5x &= 70 \\ x &= 14\end{aligned}$$

$$\begin{aligned}(7) \quad 6x + 3x - 50 &= 76 \\ -50 + 9x &= 76 \\ 9x &= 126 \\ x &= 14\end{aligned}$$

$$\begin{aligned}(8) \quad -4x - 8 + 5x &= 3 \\ -8 + x &= 3 \\ x &= 11\end{aligned}$$

$$\begin{aligned}(9) \quad -2x - 7 + x &= 5 \\ -7 - x &= 5 \\ -x &= 12 \\ x &= -12\end{aligned}$$

$$\begin{aligned}(10) \quad -4x - x - 31 &= 39 \\ -31 - 5x &= 39 \\ -5x &= 70 \\ x &= -14\end{aligned}$$

$$\begin{aligned}(11) \quad -4x - 27 + x &= 18 \\ -27 - 3x &= 18 \\ -3x &= 45 \\ x &= -15\end{aligned}$$

$$\begin{aligned}(12) \quad -8 - 4x + 5x &= 4 \\ -8 + x &= 4 \\ x &= 12\end{aligned}$$