

Essential Skills That Pay the Bills Follow-Up

Solving a linear equation with MANY steps

$$-2(-6x + 5) - 2 = -84$$

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

$$-6(x + 2) = -6(x + 4)$$

$$-3 - (1 - 2n) = 2(n - 2)$$

Solving a quadratic equation in different forms.

$$2k^2 + 7k + 3 = 0$$

$$3r^2 - 4r = 0$$

$$2x^2 - 3x = 6$$

Solving a radical equation and checking for extraneous solutions.

$$14 = \sqrt{x - 7} + 6$$

$$10 = 6 + \sqrt{16x}$$

$$\sqrt{n + 1} + 2 = -4$$

Solving an absolute value equation and checking for extraneous solutions.

$$|-2x| + 3 = 11$$

$$\frac{|7 + x|}{10} = 1$$

$$-8 + |9x| = -10$$

Solving an inequality

$$-2(1 + 6x) \leq -74$$

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$$-5(-3 + 4x) > -65$$

Solving an exponential equation

$$3^{-2x-1} = 9$$

$$64^{-x} = 4^2$$

$$4^{3x} = \frac{1}{16}$$

Solving a simple system of equations.

$$\begin{aligned} y &= -3x - 16 \\ 4x + 3y &= -18 \end{aligned}$$

$$\begin{aligned} y &= -4x - 4 \\ -8x - 2y &= 6 \end{aligned}$$

$$\begin{aligned} y &= 4x + 17 \\ -12x + 3y &= 51 \end{aligned}$$