

Solving Multi-Step Equations

Like Terms - No Negative Coefficients

Name: _____ Date: _____



Solve the equations.

(1) $-31 + 11x - 9x = 29$

(2) $-x + 5x - 38 = 18$

(3) $3x - 135 + 8x = 52$

(4) $11x - 129 - x = 41$

(5) $2x - 44 + x = 13$

(6) $-x - 102 + 10x = 96$

(7) $11x - 18 - 8x = 36$

(8) $11x - 16 - 10x = 9$

(9) $7x + 4x - 73 = 136$

(10) $-27 - 6x + 8x = 17$

Solving Multi-Step Equations

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ANSWER KEY



Solve the equations.

(1) $-31 + 11x - 9x = 29$

$$-31 + 2x = 29$$

$$2x = 60$$

$$x = 30$$

(2) $-x + 5x - 38 = 18$

$$-38 + 4x = 18$$

$$4x = 56$$

$$x = 14$$

(3) $3x - 135 + 8x = 52$

$$-135 + 11x = 52$$

$$11x = 187$$

$$x = 17$$

(4) $11x - 129 - x = 41$

$$-129 + 10x = 41$$

$$10x = 170$$

$$x = 17$$

(5) $2x - 44 + x = 13$

$$-44 + 3x = 13$$

$$3x = 57$$

$$x = 19$$

(6) $-x - 102 + 10x = 96$

$$-102 + 9x = 96$$

$$9x = 198$$

$$x = 22$$

(7) $11x - 18 - 8x = 36$

$$-18 + 3x = 36$$

$$3x = 54$$

$$x = 18$$

(8) $11x - 16 - 10x = 9$

$$-16 + x = 9$$

$$x = 25$$

(9) $7x + 4x - 73 = 136$

$$-73 + 11x = 136$$

$$11x = 209$$

$$x = 19$$

(10) $-27 - 6x + 8x = 17$

$$-27 + 2x = 17$$

$$2x = 44$$

$$x = 22$$