

Ecuaciones primer grado (básico)

Ficha 1. Identificar una ecuación de primer grado

1.1 * Marca las ecuaciones de primer grado:

- $2x + 4(x - 2) = 3$
 $2x + 4(x - 2) - 3$
 $2x + 4(x^2 - 2) = 3$
 $\frac{2}{x} + 4(x - 2) = 3$
 $\frac{x}{2} + 4(x - 2) = 3$
 $2x + 4(y - 2) = 3$

Ficha 2. Elementos de una ecuación de primer grado

2.1 ** Completa la tabla:

Ecuación	1 ^{er} miembro	2 ^o miembro	Nº términos	Incógnitas
$x + 1 = 3$				
$y + 1 = 3y - 5$				
$2(x - 3) = 4$				
$3x = 8 - x$				

Ficha 3. Reglas básicas

3.1 ** Aplica el procedimiento que se indique:

- Transposición de términos:

$$x + 3 = 6 - 2x$$

$$-4x - 5 = 9 + 3x$$

- Transposición de términos:

$$-2x - 2 + 7 = 6 - 2x$$

$$x - 6 + 3x = 5 - 2x$$

- Reducción de términos:

$$3x - x + 2x = 6 - 2 + 4$$

$$-5x - x + 3x = -9 + 5 - 5$$

- Despejar la incógnita:

$$9x = -3$$

$$-2x = 8$$

$$-5x = 0$$

$$-x = 7$$

$$-3x = -6$$

$$-4x = -2$$

Ficha 4. Resolución de ecuaciones de primer grado (simple)

4.1 * Resuelve:

$$x + 5 = 5$$

$$x + 5 = -5$$

$$x - 5 = 5$$

$$x - 5 = -5$$

4.2 * Resuelve:

$$5x = 5$$

$$-5x = 5$$

$$5x = -5$$

$$-5x = -5$$

4.3 * Resuelve:

$$2x = 10$$

$$-2x = 10$$

$$2x = -10$$

$$-2x = -10$$

$$10x = 2$$

$$-10x = 2$$

$$10x = -2$$

$$-10x = -2$$

4.4 * Resuelve:

$$3x = 4$$

$$-3x = 4$$

$$3x = -4$$

$$-3x = -4$$

$$4x = 3$$

$$-4x = 3$$

$$4x = -3$$

$$-4x = -3$$

4.5 * Resuelve:

$$\frac{x}{2} = 1$$

$$\frac{x}{2} = -1$$

$$\frac{x}{-2} = 1$$

$$\frac{x}{-2} = -1$$

$$\frac{-x}{2} = 1$$

$$\frac{-x}{2} = -1$$

$$\frac{-x}{-2} = 1$$

$$\frac{-x}{-2} = -1$$

4.6 ** Resuelve:

$5x + 5 = 5$

$5x - 5 = 5$

$5x + 5 = -5$

$5x - 5 = -5$

$-5x + 5 = 5$

$-5x - 5 = 5$

$-5x + 5 = -5$

$-5x - 5 = -5$

4.7 ** Resuelve:

$3x = 5 + 2x$

$3x = 5 - 2x$

$3x = -5 + 2x$

$3x = -5 + 2x$

$-3x = 5 + 2x$

$-3x = 5 - 2x$

$-3x = -5 + 2x$

$-3x = -5 + 2x$

4.8 ** Resuelve:

$3x + 2 = 3 + 2x$

$3x - 2 = 3 + 2x$

$3x + 2 = 3 - 2x$

$3x - 2 = 3 - 2x$

$-3x + 2 = 3 + 2x$

$-3x - 2 = 3 + 2x$

$-3x + 2 = 3 - 2x$

$-3x - 2 = 3 - 2x$

4.9 ** Resuelve:

$-3x + 2 = -2 + 2x$

$-3x - 2 = -2 + 2x$

$-3x + 2 = -2 - 2x$

$-3x - 2 = -2 - 2x$

$3x + 2 = 2 + 2x$

$3x - 2 = 2 + 2x$

$3x + 2 = 2 - 2x$

$3x - 2 = 2 - 2x$

$-3x + 2 = 2 + 2x$

$-3x - 2 = 2 + 2x$

$-3x + 2 = 2 - 2x$

$-3x - 2 = 2 - 2x$

$-3x + 2 = -3 + 2x$

$-3x - 2 = -3 + 2x$

$-3x + 2 = -3 - 2x$

$-3x - 2 = -3 - 2x$

4.10 ** Resuelve:

$$-2 - 3x + 2 = -2 + 2x$$

$$-2 - 3x - 2 = -2 + 2x$$

$$-2 - 3x + 2 = -2 - 2x$$

$$-2 - 3x - 2 = -2 - 2x$$

$$-2 + 3x + 2 = 2 + 2x$$

$$-2 + 3x - 2 = 2 + 2x$$

$$-2 + 3x + 2 = 2 - 2x$$

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$$-2 - 3x + 2 = 2 - 2x$$

$$-2 - 3x - 2 = 2 - 2x$$

$$-2 - 3x + 2 = -3 + 2x$$

$$-2 - 3x - 2 = -3 + 2x$$

$$-2 - 3x + 2 = -3 - 2x$$

$$-2 - 3x - 2 = -3 - 2x$$

4.11 ** Resuelve:

$$-2 - 3x + 2 = -x - 2 + x$$

$$-2 - 3x - 2 = -x - 2 + x$$

$$-2 - 3x + 2 = -x - 2 - x$$

$$-2 - 3x - 2 = -x - 2 - x$$

$$-2 + 3x + 2 = -x + 2 + x$$

$$-2 + 3x - 2 = -x + 2 + x$$

$$-2 + 3x + 2 = -x + 2 - x$$

$$-2 + 3x - 2 = -x + 2 - x$$

$$-2 - 3x + 2 = -x + 2 + x$$

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$$-2 - 3x - 2 = -x + 2 - x$$

$$-2 - 3x + 2 = -x - 3 + x$$

$$-2 - 3x - 2 = -x - 3 + x$$

$$-2 - 3x + 2 = -x - 3 - x$$

$$-2 - 3x - 2 = -x - 3 - x$$

4.12 * Resuelve:**

$$-x + 4 = -6x - 1 - 2x$$

$$-5x + 12 + x = 4 - 2x$$

$$-2x + 2 + 7 = 9 + 3x$$

4.13 * Resuelve:**

$$2x + 5 - x = 5 - 2x + 6$$

$$-2 - x + 3 = -7x - 7 - 2x$$

$$7 - x + 9 = 3x - 2 - 9x$$

4.14 * Resuelve:**

$$5x + 7 + x = 5 + 2x + 5$$

$$4x + 6 + x = 5 + 9x + 9$$

$$4 + 6x + 3 = -4x - 7 + x$$

4.15 * Resuelve:**

$$9x + 5 - 5x = -8 - x + 8$$

$$3x + 7 + x = 6 + 8x + 3$$

$$3x + 7 - 8x = 5 - x + 7$$

4.16 * Resuelve:**

$$2 - x + 10 = 6x - 3 - 2x$$

$$9x + 5 + x = -9 + 7x + 8$$

$$-1 + 4x + 1 = -9x - 1 + x$$