

**EJEMPLO:**

$$x^2 + 10 = 410$$

$$x^2 = 410 - 10$$

$$x^2 = 400$$

$$x = \sqrt{400}$$

$$x_1 = 20$$

$$x_2 = -20$$

$$x^2 + 8 = 89$$

$$x^2 = 89 - 8$$

$$x^2 = 81$$

$$x = \sqrt{81}$$

$$x_1 = 9$$

$$x_2 = \boxed{\phantom{00}}$$

$$x^2 + 20 = 120$$

$$x^2 = 120 - 20$$

$$x^2 = 100$$

$$x = \sqrt{\boxed{\phantom{00}}}$$

$$x_1 = \boxed{\phantom{00}}$$

$$x_2 = -10$$

$$x^2 + 15 = 240$$

$$x^2 = \boxed{\phantom{00}} - 15$$

$$x^2 = 225$$

$$x = \sqrt{225}$$

$$x_1 = 15$$

$$x_2 = \boxed{\phantom{00}}$$

$$x^2 + 18 = 67$$

$$x^2 = 67 - 18$$

$$x^2 = \boxed{\phantom{00}}$$

$$x = \sqrt{49}$$

$$x_1 = 7$$

$$x_2 = \boxed{\phantom{00}}$$

$$x^2 + 60 = 85$$

$$x^2 = 85 - 60$$

$$x^2 = 25$$

$$x = \sqrt{\boxed{\phantom{00}}}$$

$$x_1 = \boxed{\phantom{00}}$$

$$x_2 = -5$$

**EJEMPLO:**

$$x^2 - 10 = 134$$

$$x^2 = 134 + 10$$

$$x^2 = 144$$

$$x = \sqrt{144}$$

$$x_1 = 12 \quad x_2 = -12$$

$$x^2 - 50 = 175$$

$$x^2 = 175 + 50$$

$$x^2 = \boxed{\phantom{000}}$$

$$x = \sqrt{\boxed{\phantom{000}}}$$

$$x_1 = 15 \quad x_2 = -15$$

$$x^2 - 25 = 144$$

$$x^2 = 144 + 25$$

$$x^2 = 169$$

$$x = \sqrt{\boxed{\phantom{000}}}$$

$$x_1 = 13 \quad x_2 = -13$$

$$x^2 - 8 = 136$$

$$x^2 = \boxed{\phantom{000}} + \boxed{\phantom{000}}$$

$$x^2 = 144$$

$$x = \sqrt{144}$$

$$x_1 = \boxed{\phantom{000}} \quad x_2 = -12$$

$$x^2 - 90 = 54$$

$$x^2 = 54 + \boxed{\phantom{000}}$$

$$x^2 = 144$$

$$x = \sqrt{\boxed{\phantom{000}}}$$

$$x_1 = 12 \quad x_2 = -12$$

$$x^2 - 46 = 98$$

$$x^2 = 98 + 46$$

$$x^2 = 144$$

$$x = \sqrt{144}$$

$$x_1 = 12 \quad x_2 = \boxed{\phantom{000}}$$

### EJEMPLO:

$$5x^2 - 26 = 54$$

$$5x^2 = 54 + 26$$

$$5x^2 = 80$$

$$x^2 = 80/5$$

$$x^2 = 16$$

$$x = \sqrt{16}$$

$$x_1 = 4$$

$$x_2 = -4$$

$$2x^2 - 61 = 139$$

$$2x^2 = 139 + 61$$

$$2x^2 = 200$$

$$x^2 = 200/2$$

$$x^2 = 100$$

$$x = \sqrt{100}$$

$$x_1 = \boxed{\phantom{00}}$$

$$x_2 = -10$$

$$4x^2 - 26 = 74$$

$$4x^2 = 74 + 26$$

$$4x^2 = 100$$

$$x^2 = 100/4$$

$$x^2 = 25$$

$$x = \sqrt{\boxed{\phantom{00}}}$$

$$x_1 = 5$$

$$x_2 = \boxed{\phantom{00}}$$

$$3x^2 - 10 = 2$$

$$3x^2 = 2 + 10$$

$$3x^2 = 12$$

$$x^2 = 12/3$$

$$x^2 = \boxed{\phantom{00}}$$

$$x = \sqrt{\boxed{\phantom{00}}}$$

$$x_1 = 2$$

$$x_2 = \boxed{\phantom{00}}$$

$$2x^2 - 5 = 3$$

$$2x^2 = 3 + \boxed{\phantom{00}}5$$

$$2x^2 = 8$$

$$x^2 = 8 / \boxed{\phantom{00}}2$$

$$x^2 = 4$$

$$x = \sqrt{4}$$

$$x_1 = \boxed{\phantom{00}}$$

$$x_2 = -2$$

$$10x^2 - 200 = 50$$

$$10x^2 = 50 + 200$$

$$10x^2 = \boxed{\phantom{00}}$$

$$x^2 = 250 / \boxed{\phantom{00}}$$

$$x^2 = 25$$

$$x = \sqrt{25}$$

$$x_1 = 5$$

$$x_2 = -5$$

### EJEMPLO:

$$8X^2 + 20 = 220$$

$$8X^2 = 220 - 20$$

$$8X^2 = 200$$

$$X^2 = 200/8$$

$$X^2 = 25$$

$$X = \sqrt{25}$$

$$X_1 = 5 \quad X_2 = -5$$

$$2x^2 + 61 = 79$$

$$2x^2 = 79 - 61$$

$$2x^2 = 18$$

$$x^2 = \boxed{\phantom{00}} / 2$$

$$x^2 = \boxed{\phantom{00}}$$

$$x = \sqrt{\boxed{\phantom{00}}}$$

$$x_1 = 3 \quad x_2 = \boxed{\phantom{00}}$$

$$3x^2 + 10 = 22$$

$$3x^2 = 22 - \boxed{\phantom{00}} 10$$

$$3x^2 = 12$$

$$x^2 = 12 / 3$$

$$x^2 = 4$$

$$x = \sqrt{\boxed{\phantom{00}}}$$

$$x_1 = \boxed{\phantom{00}} \quad x_2 = -2$$

$$3x^2 + 10 = 85$$

$$3x^2 = 85 - 10$$

$$3x^2 = \boxed{\phantom{00}}$$

$$x^2 = 75 / 3$$

$$x^2 = 25$$

$$x = \sqrt{25}$$

$$x_1 = \boxed{\phantom{00}} \quad x_2 = -5$$

$$10x^2 + 200 = 240$$

$$10x^2 = 240 - 200$$

$$10x^2 = \boxed{\phantom{00}}$$

$$x^2 = 40 / 10$$

$$x^2 = 4$$

$$x = \sqrt{\boxed{\phantom{00}}}$$

$$x_1 = 2 \quad x_2 = -2$$

$$10x^2 + 200 = 840$$

$$10x^2 = 840 - 200$$

$$10x^2 = \boxed{\phantom{00}}$$

$$x^2 = 640 / 10$$

$$x^2 = 64$$

$$x = \sqrt{\boxed{\phantom{00}}}$$

$$x_1 = 8 \quad x_2 = -8$$

### EJEMPLO:

$$\begin{aligned}\frac{x^2 - 10}{6} &= 15 \\ X^2 - 10 &= (15)(6) \\ X^2 - 10 &= 90 \\ X^2 &= 90 + 10 \\ X^2 &= 100 \\ X &= \sqrt{100}\end{aligned}$$

$$X_1 = 10 \quad x_2 = -10$$

$$\begin{aligned}\frac{x^2 + 10}{2} &= 7 \\ X^2 + 10 &= (7)(2) \\ X^2 + 10 &= 14 \\ X^2 &= 14 - 10 \\ X^2 &= 4 \\ X &= \sqrt{4}\end{aligned}$$

$$X_1 = \boxed{\phantom{00}} \quad x_2 = -2$$

$$\begin{aligned}\frac{x^2 - 50}{50} &= 1 \\ X^2 - 50 &= (1)(50) \\ X^2 - 10 &= 50 \\ X^2 &= 50 + 50 \\ X^2 &= \boxed{\phantom{00}} \\ X &= \sqrt{100}\end{aligned}$$

$$X_1 = \boxed{\phantom{00}} \quad x_2 = -10$$

$$\begin{aligned}\frac{x^2 - 20}{5} &= 1 \\ X^2 - 20 &= (1)(5) \\ X^2 - 20 &= 5 \\ X^2 &= 5 + 20 \\ X^2 &= \boxed{\phantom{00}} \\ X &= \sqrt{25}\end{aligned}$$

$$X_1 = 5 \quad x_2 = \boxed{\phantom{00}}$$

$$\begin{aligned}\frac{x^2 + 100}{20} &= 10 \\ X^2 + 100 &= (\boxed{\phantom{00}})(20) \\ X^2 - 100 &= 200 \\ X^2 &= 200 - 100 \\ X^2 &= 100 \\ X &= \sqrt{100}\end{aligned}$$

$$X_1 = \boxed{\phantom{00}} \quad x_2 = \boxed{\phantom{00}}$$

$$\begin{aligned}\frac{x^2 + 20}{15} &= 3 \\ X^2 + 20 &= (3)(\boxed{\phantom{00}}) \\ X^2 + 20 &= 45 \\ X^2 &= 45 - \boxed{\phantom{00}} \\ X^2 &= 25 \\ X &= \sqrt{25}\end{aligned}$$

$$X_1 = 5 \quad x_2 = \boxed{\phantom{00}}$$

De todas

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ACTITUD

es la más importante