

## Ecuaciones de primer grado con una incógnita

### 1. Ecuaciones

$$5x+10=7x+2$$

$$5x-7x=2-10$$

$$75) \quad -2x=-8$$

$$x=\frac{-8}{-2}$$

$$x=4$$

$$17-3=x+5-3$$

$$76) \quad 17-3-5+3=x$$

$$12=x$$

$$x=12$$

$$7x-3=11x-9-2x$$

$$7x-11x+2x=-9+3$$

$$77) \quad -2x=-6$$

$$x=\frac{-6}{-2}$$

$$x=3$$

$$3x-1-x=7x-7$$

$$3x-x-7x=-7+1$$

$$78) \quad -5x=-6$$

$$x=\frac{-6}{-5}$$

$$x=\frac{6}{5}$$

$$5-2x-x=-2-4x-8$$

$$79) \quad -2x-x+4x=-2-8-5$$

$$x=-15$$

$$70-3x=14+x$$

$$-3x-x=14-70$$

$$88) \quad -4x=-56$$

$$x=\frac{-56}{-4}$$

$$x=14$$

$$10-3x+2=5x-2$$

$$-3x-5x=-2-10-2$$

$$89) \quad -8x=-14$$

$$x=\frac{-14}{-8}$$

$$x=\frac{7}{4}$$

$$10x-7-x=4x+5$$

$$10x-x-4x=5+7$$

$$90) \quad 5x=12$$

$$x=\frac{12}{5}$$

$$3x+1=7x-11$$

$$3x-7x=-11-1$$

$$91) \quad -4x=-12$$

$$x=\frac{-12}{-4}$$

$$x=3$$

$$47-2x=5+12x$$

$$-2x-12x=5-47$$

$$92) \quad -14x=-42$$

$$x=\frac{-42}{-14}$$

$$x=3$$

$$3x + 4 \cdot 2x = 187$$

$$3x + 8x = 187$$

$$80) \quad 11x = 187$$

$$x = \frac{187}{11}$$

$$x = 17$$

$$9 + 9x = 21 - 3x$$

$$9x + 3x = 21 - 9$$

$$81) \quad 12x = 12$$

$$x = \frac{12}{12}$$

$$x = 1$$

$$25 - 2x = 3x - 80$$

$$-2x - 3x = -80 - 25$$

$$82) \quad -5x = -105$$

$$x = \frac{-105}{-5}$$

$$x = 21$$

$$1 + 8x = -64x + 46$$

$$8x + 64x = 46 - 1$$

$$83) \quad 72x = 45$$

$$x = \frac{45}{72}$$

$$x = \frac{5}{8}$$

$$5x - 11 = 15x - 33$$

$$5x - 15x = -33 + 11$$

$$84) \quad -10x = -22$$

$$x = \frac{-22}{-10}$$

$$x = \frac{11}{5}$$

$$5x - 60 = -2x - 54$$

$$5x + 2x = -54 + 60$$

$$85) \quad 7x = 6$$

$$x = \frac{6}{7}$$

$$11x - 10 - x = 2x - 2$$

$$11x - x - 2x = -2 + 10$$

$$93) \quad 8x = 8$$

$$x = \frac{8}{8}$$

$$x = 1$$

$$10 - 9x = -7x + 1 + x$$

$$-9x + 7x - x = 1 - 10$$

$$94) \quad -3x = -9$$

$$x = \frac{-9}{-3}$$

$$x = 3$$

$$3 - x + 2 = 2x + 1 - x$$

$$-x - 2x + x = 1 - 3 - 2$$

$$95) \quad -2x = -4$$

$$x = \frac{-4}{-2}$$

$$x = 2$$

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

$$2x + x + 2x = 4 + 5$$

$$96) \quad 5x = 9$$

$$x = \frac{9}{5}$$

$$3x - 5x + 2 = 5x - x + 1$$

$$3x - 5x - 5x + x = 1 - 2$$

$$97) \quad -6x = -1$$

$$x = \frac{-1}{-6}$$

$$x = \frac{1}{6}$$

$$7x - x - 1 = 7 - x - 1$$

$$7x - x + x = 7 - 1 + 1$$

$$98) \quad 7x = 7$$

$$x = \frac{7}{7}$$

$$x = 1$$

$$2x + 17 = 3x + 2$$

$$2x - 3x = 2 - 17$$

$$86) \quad -x = -15$$

$$x = \frac{-15}{-1}$$

$$x = 15$$

$$-x - 2x + 1 = 2x - 1$$

$$-x - 2x - 2x = -1 - 1$$

$$99) \quad -5x = -2$$

$$x = \frac{-2}{-5}$$

$$x = \frac{2}{5}$$

$$60 - 5x = x - 12$$

$$-5x - x = -12 - 60$$

$$87) \quad -6x = -72$$

$$x = \frac{-72}{-6}$$

$$x = 12$$

$$10 + 5 - 2x = 4x - x$$

$$-2x - 4x + x = -10 - 5$$

$$100) \quad -5x = -15$$

$$x = \frac{-15}{-5}$$

$$x = 3$$