

Equacions de primer grau senzilles

Preguntes

Exercici 1. Resoleu les equacions:

a. $5x + 9 = 18$

c. $4x + 3 = 15$

b. $6x + 8 = 7$

d. $8x + 5 = 15$

Exercici 2. Resoleu les equacions següents:

a. $1x + 10 = -19x + 9$

c. $6x + 2 = 11x + 16$

b. $7x + 5 = -11x + 6$

d. $6x + 3 = -3x + 18$

Exercici 3. Resoleu les equacions següents:

a. $2 + 2x = 19 + 12x - 17$

d. $-5 + 3x = -12 + 19x - 14$

b. $9 + 4x = -18 + 18x - 7$

e. $1 + 3x = -4 + 16x - 20$

c. $7 + 6x = 7 + 15x - 5$

f. $10 + 2x = -8 + 6x - 9$

Soluciones

1 (a.) $x = \frac{9}{5}$ (b.) $x = \frac{-1}{6}$ (c.) $x = \frac{3}{1}$ (d.) $x = \frac{5}{4}$

2 (a.) $x = \frac{-1}{20}$ (b.) $x = \frac{1}{18}$ (c.) $x = \frac{-14}{5}$ (d.) $x = \frac{5}{3}$

3 (a.) $x = \frac{0}{1}$ (b.) $x = \frac{17}{7}$ (c.) $x = \frac{5}{9}$ (d.) $x = \frac{21}{16}$ (e.) $x = \frac{25}{13}$ (f.) $x = \frac{27}{4}$

Resolució

- 1 (a.) $5x + 9 = 18 \Rightarrow 5x = 18 - 9 \Rightarrow x = \frac{18-9}{5} \Rightarrow x = \frac{9}{5} \Rightarrow x = \frac{9}{5}$
(b.) $6x + 8 = 7 \Rightarrow 6x = 7 - 8 \Rightarrow x = \frac{7-8}{6} \Rightarrow x = \frac{-1}{6} \Rightarrow x = \frac{-1}{6}$
(c.) $4x + 3 = 15 \Rightarrow 4x = 15 - 3 \Rightarrow x = \frac{15-3}{4} \Rightarrow x = \frac{12}{4} \Rightarrow x = \frac{3}{1}$
(d.) $8x + 5 = 15 \Rightarrow 8x = 15 - 5 \Rightarrow x = \frac{15-5}{8} \Rightarrow x = \frac{10}{8} \Rightarrow x = \frac{5}{4}$
- 2 (a.) $1x + 10 = -19x + 9 \Rightarrow 1x + 19x = 9 - 10 \Rightarrow 20x = -1 \Rightarrow x = \frac{-1}{20} \Rightarrow x = \frac{-1}{20}$
(b.) $7x + 5 = -11x + 6 \Rightarrow 7x + 11x = 6 - 5 \Rightarrow 18x = 1 \Rightarrow x = \frac{1}{18} \Rightarrow x = \frac{1}{18}$
(c.) $6x + 2 = 11x + 16 \Rightarrow 6x - 11x = 16 - 2 \Rightarrow -5x = 14 \Rightarrow x = \frac{14}{-5} \Rightarrow x = \frac{-14}{5}$
(d.) $6x + 3 = -3x + 18 \Rightarrow 6x + 3x = 18 - 3 \Rightarrow 9x = 15 \Rightarrow x = \frac{15}{9} \Rightarrow x = \frac{5}{3}$
- 3 (a.) $2 + 2x = 19 + 12x - 17 \Rightarrow -10x = 0 \Rightarrow x = \frac{0}{-10} = \frac{0}{1}$
(b.) $9 + 4x = -18 + 18x - 7 \Rightarrow -14x = -34 \Rightarrow x = \frac{-34}{-14} = \frac{17}{7}$
(c.) $7 + 6x = 7 + 15x - 5 \Rightarrow -9x = -5 \Rightarrow x = \frac{-5}{-9} = \frac{5}{9}$
(d.) $-5 + 3x = -12 + 19x - 14 \Rightarrow -16x = -21 \Rightarrow x = \frac{-21}{-16} = \frac{21}{16}$
(e.) $1 + 3x = -4 + 16x - 20 \Rightarrow -13x = -25 \Rightarrow x = \frac{-25}{-13} = \frac{25}{13}$
(f.) $10 + 2x = -8 + 6x - 9 \Rightarrow -4x = -27 \Rightarrow x = \frac{-27}{-4} = \frac{27}{4}$

