

ALGEBRA

1st

CAPÍTULO 1

RETROALIMENTACIÓN
TOMO I



 **SACO OLIVEROS**

1. Indique V o F según corresponda

RESOLUCIÓN

a. $-14 > -5$ (F)

b. $-80 < -15$ (V)

.
c. $0 < 21$ (V)

d. $\frac{+15}{-5} < \frac{-32}{-4}$ (V)

2. Efectúe en cada caso

RESOLUCIÓN

$$a. (+7) - (+14) = +7 - 14 = -7$$

$$b. (-20) - (-30) = -20 + 30 = +10$$

$$c. (-2021) - (-2021) = -2021 + 2021 = 0$$

$$d. (+11) + (-18) = +11 - 18 = -7$$

3. Efectúe $M+N$ si :

$$M = (-8) + (+5)$$

$$N = -48 \div 8$$

RESOLUCIÓN

$$M = (-8) + (+5)$$

$$M = -3$$

$$N = -48 \div 8$$

$$N = -6$$

Piden :

$$M + N = -3 - 6 = -9$$

$$\therefore M + N = -9$$

4. Calcule el valor de

$$P = 5 - (+4) - (-6) + (-8)$$

RESOLUCIÓN

$$P = 5 - (+4) - (-6) + (-8)$$

$$P = 5 - 4 + 6 - 8$$

$$P = 1 - 2$$

$$P = -1$$

$$\therefore P = -1$$

5. Halle el valor de

$$B = (-7)(5) + (-3)(-2) - (-1)$$

RESOLUCIÓN

$$B = (-7)(5) + (-3)(-2) - (-1)$$

$$B = -35 + (+6) + 1$$

$$B = -35 + 7$$

$$B = -28$$

$$\therefore B = -28$$

6. Halle el valor de

$$Q = (13)(-2) + 7(9) - (-5)(+6)$$

Sabiendo que representa la edad de Christian hace 5 años. ¿Cuál será su edad dentro de 2 años?

RESOLUCIÓN

$$Q = (13)(-2) + 7(9) - (-5)(+6)$$

$$Q = -26 + 63 + 30$$

$$Q = -26 + 93$$

$$Q = +67$$

$$\text{Edad actual} = 67 + 5$$

$$\text{Edad actual} = 72$$

∴ Christian tendrá 74 años

7. Efectúe

$$S = [12 + (-8 + 3)(-4)] \div [(-9) \div (-3) - 1]$$

RESOLUCIÓN

$$S = [12 + (-8 + 3)(-4)] \div [(-9) \div (-3) - 1]$$

$$S = [12 + (-5)(-4)] \div [+3 - 1]$$

$$S = [12 + 20] \div 2$$

$$S = 32 \div 2$$

$$S = 16$$

$$\therefore S = 16$$

8. Determine el valor de

$$A = \frac{(-6)(+14) - (-5)(-20)}{(-2)(4)}$$

RESOLUCIÓN

$$A = \frac{(-6)(+14) - (-5)(-20)}{(-2)(4)}$$

$$A = \frac{-84 - (+100)}{-8}$$

$$A = \frac{-84 - 100}{-8} = \frac{-184}{-8} = +23$$

$$\therefore A = 23$$

9. Sabiendo que :

$$A = (-8)(+2)(-4)$$

$$B = (-16) \div (-2)$$

$$C = (-4)^2 - (-4)^3$$

Calcule $\sqrt[5]{C - (A + B)}$

RESOLUCIÓN

$$A = (-8)(+2)(-4)$$

$$A = +64$$

$$B = (-16) \div (-2)$$

$$B = +8$$

$$C = (-4)^2 - (-4)^3$$

$$C = +16 - (-64)$$

$$C = 16 + 64$$

$$C = 80$$

Piden :

$$8 - \sqrt[5]{80 - (64 + 8)}$$

$$\sqrt[3]{80 - 72}$$

$$\sqrt[3]{8}$$

$$\therefore 2$$

10. Calcule el valor de

$$M = 5 - [(-2 + 4) \div 2 + (-3)(-5)(-1) - (-18)]$$

RESOLUCIÓN

$$M = 5 - [(-2 + 4) \div 2 + (-3)(-5)(-1) - (-18)]$$

$$M = 5 - [2 \div 2 - 15 + 18]$$

$$M = 5 - [1 - 15 + 18]$$

$$M = 5 - 1 + 15 - 18$$

$$M = 1$$

$$\therefore M = 1$$