

Tarefa Béssica

$$1) A_4 = 2A_3 + A_1$$

$$80 = 21^2 + 121$$

$$21^2 = 121 - 80 = 0$$

$$\Delta = 12^2 - 4 \cdot 2 \cdot (-80)$$

$$\Delta = 144 + 640$$

$$\Delta = 784$$

$$1 = -12 + 28 \leftarrow = 16 / 4 = \boxed{4 \text{ m}}$$

$$4 \leftarrow = -40 / 4 = -10 \text{ m}$$

$$2) 24\sqrt{3} = (6,1^2\sqrt{3}) / 4 \quad | A_1 = 6,4 \cdot 2\sqrt{3}$$

$$96 = 6^2 \quad | A_1 = 24 \cdot 2\sqrt{3}$$

$$1^2 = 96 / 6 = 16$$

$$A_1 = 48\sqrt{3} \text{ cm}^2$$

$$1 = \sqrt{16} = 4 \text{ cm}$$

$$3) \Delta_3 = (6,2^2\sqrt{3}) / 4 \quad | A_1 = 2,6\sqrt{3} + 12\sqrt{3}$$

$$A_3 = 6\sqrt{3} \quad | A_1 = 12\sqrt{3} + 12\sqrt{3}$$

$$A_1 = 6 \cdot 2\sqrt{3} \quad | A_1 = 24\sqrt{3}$$

$$A_1 = 12\sqrt{3}$$

$$4) S^2 = 3^2 + R^2 \quad | A_3 = ((x+8) \cdot 4) / 8 \quad | V = 20,5$$

$$2S = 9 + R^2 \quad | A_3 = 20 \quad | V = 100 \text{ m}^3$$

$$R^2 = 16$$

$$R = \sqrt{16} = 4$$

$$5) Ab = (10 \cdot 15) / 2$$

$$Ab = 75 \text{ cm}$$

Letra C

$$V = 75 \cdot 15$$

$$V = 750 \text{ cm}^3$$

$$6) A_1 = 2(x \cdot 2y) + 2(y \cdot 2y)$$

$$A_1 = 4xy + 4y^2$$

$$4x^2 = 2xy + (4xy + 4y^2)$$

$$4x^2 = 6xy + 4y^2$$

$$4x^2 - 6xy - 4y^2 = 0$$

letra C

$$\Delta = (-6y)^2 - 4 \cdot 4 \cdot (-4y^2)$$

$$\Delta = 36y^2 + 64y^2$$

$$\Delta = 100y^2$$

$$x = (6y \pm 10y)/8$$

$$\begin{cases} x^1 = 16y/8 = 2y \\ x^2 = -4y/8 = -0,5y \end{cases}$$

$$AB = x \cdot (x/2)$$

$$AB = x^2/2$$

$$V = (x^2/2) \cdot x$$

$$V = x^3/2$$

$$1) C: 51 - (2 \cdot 0,5) = 50$$

$$L: 26 - (2 \cdot 0,5) = 25$$

$$A: 12,5 - 0,5 = 12$$

letra A

$$V = 50 \cdot 25 \cdot 12$$

$$V = 15000 \text{ cm}^3 = 0,015 \text{ m}^3$$

$$2) 72 = 6a^2$$

$$a = \sqrt{12}$$

$$a = 2\sqrt{3} \text{ m}$$

$$D = \sqrt{3}a^2$$

$$D = \sqrt{3} \cdot (2\sqrt{3})^2$$

$$D = \sqrt{3 \cdot 12}$$

$$D = \sqrt{36}$$

$$D = 6 \text{ m}$$

letra B

$$3) a = 5 \text{ cm} = 50/100 = 0,5 \text{ m}$$

$$V = 0,5^3$$

$$V = 0,125 \text{ m}^3$$

$$V = 0,125 \cdot 1000$$

$$V = 125 \text{ L}$$

letra A

$$4) V = 1^3$$

$$V = 1 \text{ m} \rightarrow 1000 \cdot 1 = 1000 \text{ L} \rightarrow 1000 - 1 = 999 \text{ L}$$

$$\begin{array}{l|l|l} 1 \text{ m}^3 = 1000 \text{ L} & 1000 - 1000x = 999 & x = 1/1000 \\ 1 \text{ m}^3 - x = 999 \text{ L} & 1000x = 1 (x-1) & x = 0,001 \text{ m}^3 \end{array}$$

$$5) V = abc$$

$$V = 2a \cdot 2b \cdot c$$

$$V = 4abc$$

$$V = 4V$$

+
| etra C |
+

$$6) V = (4\sqrt{3})^3$$

$$V = 64 \cdot 3\sqrt{3} = 192\sqrt{3} \text{ cm}^3$$

$$h = (4\sqrt{3} \cdot \sqrt{3}) / 2 = 6 \text{ cm}$$

$$Ab = (4\sqrt{3} \cdot 6) / 2 = 12\sqrt{3} \text{ cm}^2$$

$$h_{quad} = (192\sqrt{3}) / 12\sqrt{3} = 16 \text{ cm}$$

+
| etra D |
+

$$A_1 = 3 \cdot 4\sqrt{3} \cdot 16 = 192\sqrt{3} \text{ cm}^2$$

$$A_t = 2 \cdot 12\sqrt{3} + 192\sqrt{3}$$

$$A_t = 24\sqrt{3} + 192\sqrt{3}$$

$$A_t = 216\sqrt{3} \text{ cm}^2$$