

Prismas

$$1) 2x^2 - \text{Área das bases}$$
$$12x - \text{Área lateral}$$

$$2x^2 + 12x = 80 \Rightarrow 2x^2 + 12x - 80 = 0$$

$$\begin{array}{r} -6/x \\ -10 + 4 \quad -6 \\ \hline \end{array}$$

$$\begin{array}{r} 4/x \\ -10 \cdot 4 \quad -40 \\ \hline \end{array}$$

$$\checkmark = 4 \text{ m}$$

$$2) A_H = \frac{31^2 \sqrt{3}}{2} \Rightarrow 24\sqrt{3} = \frac{31^2 \sqrt{3}}{2}$$

$$48\sqrt{3} = 31^2 \sqrt{3}$$

$$A = 6(2\sqrt{3} \cdot 4)$$

$$16\sqrt{3} = 1^2 \sqrt{3}$$

$$A = 6 \cdot 8\sqrt{3}$$

$$1^2 = 26$$

$$A = \underline{\underline{48\sqrt{3}}} \text{ m}^2$$

$$1 = 4$$

$$3) A_H = \frac{3 \cdot 4 \sqrt{3}}{2}$$

$$A_H = 12\sqrt{3} + 2(6\sqrt{3})$$

$$A_H = 6\sqrt{3}$$

$$A_H = 24\sqrt{3}$$

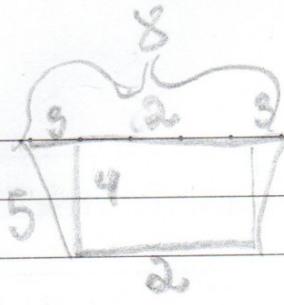
$$AL = 6(1 \cdot h)$$

(B)

$$AL = 6(2\sqrt{3})$$

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

4)



$$3^2 + 4^2 = 5^2$$

$$A_t = \frac{8+2}{2} \cdot 4 = 20 \text{ m}^2$$

$$V = 20 \cdot 5 = 100 \text{ m}^3$$

(1)

$$5) A_{base} = \frac{15+10}{2} = 75$$

$$V = 75 \cdot 10 = 750 \text{ cm}^3 \quad (c)$$

$$6) z = 2y \quad A_t = 2xy + 2(xz + yz)$$

$$4x^2 = 2xy + 2xz + yz$$

$$2y^2 = xy + 2yx + 2y^2$$

$$2x^2 = 3xy + 2y^2$$

$$-2x^2 + 3xy + 2y^2 = 0$$

$$\Delta 9x^2 - 4 \cdot 2 \cdot (-2y^2)$$

$$\Delta = 9x^2 + 16y^2$$

$$\Delta = 25x^2$$

$$z = 2 \cdot x / 2$$

$$z = x$$

$$y = -\frac{3x + 5x}{4} = \frac{2x}{4}$$

$$y = x/2$$

$$V = x \cdot x \cdot x/2$$

$$V = x^3/2$$

(c)