1 1

5. $Ab = \frac{10 \cdot h}{2}$ $V = 75 \cdot 10$

$V = 750$

$Ab = 75$ alternativa c

6. $Ab = x \cdot y$ $Al = 2(x \cdot 2y) + 2(y \cdot 2y)$

$Al = 4xy + 4y^2$

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

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

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

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

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

$\Delta = 100y$

$x = \frac{6y \pm \sqrt{100y^2}}{2 \cdot 4} = \frac{6y \pm 10y}{8}$

$x' = \frac{16y}{8} = 2y$

$x'' = \frac{(-4y)}{8}$ = não convém

$x = 2y = z$ $Ab = \frac{x \cdot x}{2}$ $V = \frac{x^2 \cdot x}{2}$

$Ab = \frac{x^2}{2}$ $V = \frac{x^3}{2}$ alternativa c

SÃO DOMINGOS

DOM SEG TER QUA QUI SEX SÁB
DOM LUN MAR MIÉ JUE VIE SÁB

/ /

Tarefa básica - Prismas / paralelepípedo retângulo

1. $A_b = x^2$

$AC = 4,5x - 4x = 12x$

$2x^2 + 12x = 80$

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

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

$\Delta = 144 + 320$

$\Delta = 784$

$x = \frac{-12 + \sqrt{784}}{4} = \frac{-12 + 28}{4} = 4$ m

2. $24\sqrt{3} = \frac{3\sqrt{3} \cdot l^2}{2}$

$48\sqrt{3} = 3\sqrt{3} \cdot l^2$

$l^2 = \frac{48\sqrt{3}}{3\sqrt{3}}$

$l = \sqrt{16}$

$l = 4$

$A_l = 6 \cdot 4 \cdot 2\sqrt{3}$

$A_l = 48\sqrt{3}$ m²

3. $A_b = \frac{3\sqrt{3} \cdot 2^2}{2}$

$A_b = 6\sqrt{3}$

$A_l = 6 \cdot 2\sqrt{3}$

$A_l = 12\sqrt{3}$

$A = 2 \cdot 6\sqrt{3} + 12\sqrt{3}$

$A = 24\sqrt{3}$

alternativa B

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

$l^2 = 25 - 9$

$l = \sqrt{16}$

$A_b = \frac{(2 \cdot 4) \cdot 4}{2}$

$A_b = 20$

$V = 20 \cdot 5$

$V = 100$

alternativa D