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MATEMATICA

SEMANA 31

① $V = \frac{A_b \cdot h}{3} \rightarrow 48 = \frac{2x^2 \cdot 8}{3} \rightarrow 16x^2 = 48 \cdot 3$

$x^2 = \frac{48 \cdot 3}{16} \rightarrow x^2 = 3 \cdot 3 \rightarrow x^2 = 9 \rightarrow x = \sqrt{9} \rightarrow \boxed{x = 3}$

Resposta: (C)

② $x^2 = 30^2 + 40^2$
 $x^2 = 900 + 1600$
 $x^2 = 2500$
 $x = \sqrt{2500}$
 $x = 50$

$80 \cdot 50 = 2000$
 $4 \cdot 2000 = 8000$
 $80^2 = 6400$

$8000 + 6400 = 14400$

Resposta: (E)

③ $h = \frac{\sqrt{2}}{\sqrt{2}} = \frac{12}{1}$

Resposta: (3)

④

⑤ $S_b = 6 \cdot 5\sqrt{3} = 6 \cdot 4\sqrt{3} \rightarrow S_b = 24\sqrt{3}$
 $V = \frac{1}{3} S_b \cdot h \Rightarrow V = \frac{1}{3} 24\sqrt{3} \cdot 6\sqrt{3} \rightarrow V = \boxed{144 \text{ cm}^3}$

Resposta: (D)

$$\textcircled{6} \quad V = \frac{1}{3} \cdot \frac{3\sqrt{3}}{2} \cdot 8$$

Resposta: (A)

$$V = \sqrt{48} \rightarrow \boxed{4\sqrt{3}}$$

$$\textcircled{7} \quad \frac{4a^2 \frac{h}{3}}{a^2 h} = \frac{4a^2 h}{3} \cdot \frac{1}{a^2 h} = \boxed{\frac{4}{3}}$$

Resposta: (A)

$$\textcircled{8} \quad a = \sqrt{6} \quad \left\{ \quad h = \frac{\sqrt{6} \cdot \sqrt{6}}{3} = \frac{\sqrt{36}}{3} = \frac{6}{3} = 2 \right.$$

Resposta: (A)