

## Breting Gonçalves Elétrico

• Exercício e suas partes

$$\textcircled{2} \quad V = \frac{4\pi \cdot r^3}{3} \rightarrow \frac{4\pi \cdot 10^3}{3} \rightarrow \frac{4\pi}{3}$$

$$r^3 = 10^6$$

$$r = \sqrt[3]{10^6} \rightarrow 10^2 = 10$$

$$\textcircled{3} \quad V_c = \frac{4\pi r^3}{3}$$

Volume

$$V_c = \pi \cdot r^2 \cdot h$$

$$V_c = \pi \cdot 4 \cdot r^2 \rightarrow V_c = 16\pi r^3$$

Volume do Cilindro

$$V_c = \frac{4\pi r^3}{3}$$

$$\frac{3}{16\pi r^3} = \frac{1}{12}$$



$$\textcircled{4} \quad \frac{4 \cdot \pi \cdot 1^3}{3} + \frac{4 \cdot \pi \cdot 2^3}{3} = \pi \cdot r^2 \cdot 3 = 9r^2 = 36 \rightarrow 2 \text{ cm}$$

$$\textcircled{5} \quad \text{Volume Cilindro} = \pi \cdot 6^2 \cdot 1 = 36\pi$$

$$\text{Volume Esfera} = \frac{4 \cdot \pi \cdot r^3}{3}$$

$$\cancel{4\pi} r^3 = \cancel{108\pi}$$

$$r^3 = 27$$

$$r = \sqrt[3]{27}$$

$$r = 3 \text{ cm}$$



$$\textcircled{1} V = A_b \cdot h$$

$$V = (10^2) \pi \cdot 16$$

$$V = 16000 \pi$$

$$V' = \frac{4}{3} \cdot \pi \cdot 2^3$$

$$V' = \frac{4}{3} \cdot \pi \cdot 8$$

$$V' = \frac{32\pi}{3}$$

$$V = 1600\pi = \cancel{1600}^{50} \pi$$

$$V = 50\pi$$

$$V = 50 \cdot 3 = 150$$

• Inscrição e Circunscrição de Sólidos

$$\textcircled{2} S_e = 4\pi r^2$$

$$S_e = 4\pi \left(\frac{d}{2}\right)^2$$

$$\frac{S_e}{S_c} = \frac{\pi d^2}{6 \cdot d} = \frac{\pi}{6}$$

$$S_e = \frac{4\pi}{4} d^2$$

$$S_e = \pi d^2$$



$$\textcircled{4} \quad V = \pi \cdot r^2 \cdot h$$

$$V = \pi \cdot 3 \cdot 3 \cdot 4$$

$$V = \pi \cdot 9 \cdot 4$$

$$V = \pi \cdot 36$$

$$V = 36\pi \text{ m}^2$$