

Távola Básica

1) Letra C - Figura tridimensional dos corpos redondos.

$$2) V_1 = (\frac{4}{3}) \pi \cdot R^3$$

$$V_1 = (\frac{4}{3}) \pi \cdot 1^3$$

$$V_1 = \frac{4}{3} \pi$$

$$V_2 = (\frac{4}{3}) \pi \cdot D^3$$

$$(4/3) \pi \cdot D^3 = 1000000 \quad (4/3) \pi$$

$$D^3 = 1000000 = 10^6$$

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

$$D = 100$$

$$3) V_e = (\frac{4}{3}) \pi \cdot R^3$$

$$V_e = \pi \cdot 16 \cdot R^3$$

$$R_c = 2R$$

$$R_e = R$$

Letra e

$$\frac{\frac{4}{3} \pi \cdot R^3}{\pi \cdot 16 \cdot R^3} = \frac{4}{3} \cdot \frac{1}{16} = \frac{1}{12}$$

$$4) \frac{4}{3} \pi \cdot 1^3 + \frac{4}{3} \pi \cdot 2^3 = \pi \cdot R^2 \cdot 3$$

$$\frac{4}{3} \pi + 32\pi = 3R^2 \cdot \pi$$

$$\frac{36\pi}{3} = 3R^2 \cdot \pi$$

$$\frac{12\pi}{R^2} = 3R^2 \cdot \pi$$

$$R^2 = 12/3 = \sqrt{4} = 2 \text{ cm}$$

Q1 Q2 Q3 Q4 Q5 Q6

$$5) V_c = \pi \cdot 6^2 \cdot 1$$
$$V_c = 36\pi$$
$$V_c = (4/3) \cdot \pi \cdot R^3$$

$$R^3 = 27$$
$$R = \sqrt[3]{27} = 3 \text{ cm}$$

$$4\pi R^3 = 36\pi$$

$$\frac{4}{3}\pi \cdot R^3 = 108\pi$$
$$\frac{4}{3}\pi \cdot R^3 = 108\pi (\div 4)$$

~~lateral C~~

$$a = 2 \cdot 6$$

$$6) V = 288\pi \text{ cm}^3$$
$$288\pi = \frac{4}{3}\pi \cdot R^3$$

$$3$$

$$R = \sqrt[3]{216} = 6$$