

CILINDROS E PIRÂMIDES

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$$3000 \times 4 = 24000,40$$

$$3000 \times 4 = 96000$$

$$x_1 = \underline{96000}$$

39996

alternativa (A), \downarrow $x = 36, \text{cm}$

2. os cilindros vazio

$$C_1 \rightarrow h_1 = \text{diâmetro da base} = r_1 \cdot 2$$

$$C_2 \rightarrow h_2 = 2 \cdot \text{diâmetro da base} + E.S.C.d$$

$$\frac{r_1}{r_2} = \frac{1}{3} \rightarrow \text{Alt}_1 \cdot h_1 = 1 \rightarrow \pi r_1^2 \cdot h_1 = 1 \quad \pi r_1^2 \cdot h_1 = 1 \\ \text{Alt}_2 \cdot h_2 = 27 \quad \text{Alt}_2 \cdot h_2 = 27 \quad \pi r_2^2 \cdot h_2 = 27$$

$$\pi r_1^2 \cdot r_1 \cdot 6 = 1 \\ \pi r_2^2 \cdot 3 \cdot 52 \cdot 6 = 27$$

$$\frac{r_1^3}{r_2^3} = \frac{1}{27}$$

$$\frac{r_1^3}{r_2^3} = \frac{1}{27}$$

$$\begin{cases} r_1^3 = 3 \\ r_2^3 = 27 \end{cases}$$

$$\sqrt[3]{\frac{r_1^3}{r_2^3}} = \sqrt[3]{\frac{3}{27}}$$

alternativa (E), \downarrow

$$\frac{r_1}{r_2} = \frac{1}{3}$$

3. circulo \rightarrow 50% maior do que os círculos
Anel = Anel.

$$\text{Anel} = \pi r^2 + \pi R^2$$

$$\text{Anel} = \pi r^2 h = \pi (3,5)^2 \cdot 2 = 77,95$$

$$V = \pi r^2 h$$

$$100 = \pi r^2 h$$

$$r^2 = 100$$

$$r = \sqrt{100}$$

$$r^2 = 100$$

$$r = \sqrt{100}$$

$$r = 10$$

$$377,95 = \pi r^2 h$$

$$377,95 = \pi r^2 h$$

$$h = \frac{377,95}{\pi r^2}$$

$$h = \frac{377,95}{100\pi}$$

$$h = 1,2$$

$$h = 4$$

alternativa (V), //

4. círculo 6cm \rightarrow $r = 3$ cm

$$V = \pi r^2 h$$

$$100 = \pi r^2 (4+3x)^2 \cdot 4$$

$$2^2 = \pi r^2 (4+3x)$$

$$\hookrightarrow V = \pi r^2 (4+3x)^2 \cdot 4 = \pi r^2 (4+3x)$$

$$\hookrightarrow \pi (r^2 \cdot 9x^2 + 24x^2 + 144) \cdot 4 = 72\pi \cdot x^2 + 576$$

$$72\pi x^2 + 288x^2 + 576 = 0$$

$$72\pi x^2 + 288x^2 + 576 = 0$$

$$\Delta = b^2 - 4ac = 43,44$$

$$\Delta = 576$$

$$x_1 = -b + \sqrt{\Delta} / 2a$$

$$x_2 = -b - \sqrt{\Delta} / 2a$$

$$x_1 = -b + \sqrt{\Delta} / 2a$$

$$x_2 = -b - \sqrt{\Delta} / 2a$$

alternativa (V), //

5. cilindro radio = 25 cm

altura de agua en el 0,8 mm. se coloca una piedra

radio = 25 cm

altura = 0,8 cm

radio = 25 cm

radio = 25 cm

radio = 25 cm

altura

radio = 25 cm

busto de cocinero de piedra

6. busto de cocinero de piedra

radio = 25 cm

altura de agua en el 0,8 cm.

radio = 25 cm

radio = 25 cm

radio = 25 cm

radio = 25 cm

$$2. \text{ Area} = 7.2 \cdot 9.0 = 64.8 \text{ cm}^2$$

$$\text{Almond} = 4 \cdot L \cdot A = 4 \cdot 9.0 \cdot 6.0 = 216 \text{ cm}^3$$

$$\text{Moral} = 64.8 \cdot 3 + 72 \cdot 6.0 + 144 \cdot 1.5$$

$$3. \text{ Morale} = 1 \cdot \sqrt{3}$$

$\begin{matrix} \text{Area} &= \frac{\sqrt{3}}{4} \cdot \text{perimeter}^2 + 0 \\ A &= \frac{\sqrt{3}}{4} \\ \text{perimeter} &= \left(\frac{\sqrt{3}}{4} \right)^2 + \left(\frac{\sqrt{3}}{4} \right)^2 \end{matrix}$

$$\text{perimeter}^2 = \left(\frac{\sqrt{3}}{4} \right)^2 + \left(\frac{\sqrt{3}}{4} \right)^2$$

$$\underline{h = 3} \quad \text{Berechnung (3)}$$

$$4.5. \text{ Above} = 6 \cdot \left(\frac{1^2 \cdot \sqrt{3}}{4} \right) + 0.4^2 \cdot \frac{\sqrt{3}}{4} = 2.4 \cdot \sqrt{3}$$

$$V = \frac{1}{3} \cdot 24 \cdot \sqrt{3} \cdot 6 \cdot 3 = 24 \cdot 6 \cdot 3 = 432 \text{ cm}^3$$

Berechnung (4)

$$4. \text{ Above} = 6 \cdot \left(\frac{1^2 \cdot \sqrt{3}}{4} \right) + 6 \cdot 0^2 \cdot \frac{\sqrt{3}}{4} = 2 \cdot \sqrt{3}$$

$$V = \frac{1}{3} \cdot \left(2 \cdot \sqrt{3} \cdot 6 \right) \cdot 6 \cdot 3 = 2 \cdot \sqrt{3} \cdot 6 \cdot 3 = 2 \cdot 18 \cdot \sqrt{3}$$

Berechnung (5)

$$6. \text{ Above} = 6 \cdot \left(\frac{1^2 \cdot \sqrt{3}}{4} \right) + 2 \cdot \left(\frac{0}{2} \right)^2 \cdot \frac{\sqrt{3}}{4} = 2 \cdot \sqrt{3}$$

$$V = \frac{1}{3} \cdot 2 \cdot \sqrt{3} \cdot 6 \cdot 3 = 4 \cdot \sqrt{3}$$

Berechnung (6)

7. $\lambda = \sqrt{2}$

base = 1

lado = 1

base = 1

$$\begin{array}{c} 2 \\ 1 \\ 1 \\ \hline 3 \end{array}$$

descansiva (λ_{\parallel})

8. $\lambda = \sqrt{\frac{2}{3}}$

$$\begin{array}{c} 2 \\ 1 \\ 1 \\ \hline 4 \end{array}$$

$$n = L \frac{\sqrt{6}}{3}$$

$$\begin{array}{c} 1 \\ 1 \\ 1 \\ \hline 3 \end{array}$$

$$n = \sqrt{6} \cdot \frac{\sqrt{6}}{3}$$

$n = 2$, descansiva (λ_{\parallel})

