

Вешбање

22.02.2021.

Збирка за завршни испит (33ч)

261. (33ч)
 $a = 6 \text{ cm}$

$P = ?$

$$P = B + M$$

$$B = a^2 = 6^2$$

$$B = 36 \text{ cm}^2$$

$$M = 4 \frac{a^2 \sqrt{3}}{4}$$

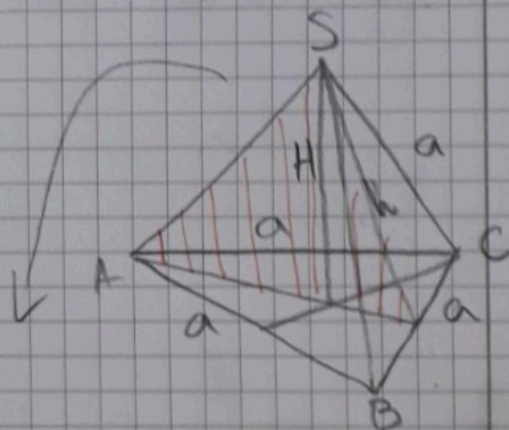
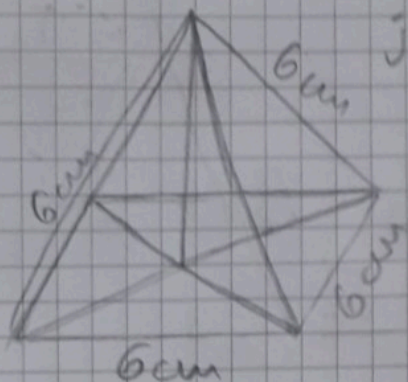
$$M = a^2 \sqrt{3} = 6^2 \sqrt{3}$$

$$M = 36 \sqrt{3} \text{ cm}^2$$

$$P = (36 + 36 \sqrt{3}) \text{ cm}^2$$

ПРАВИЛНА
 ЈЕДНАКОУБИЧНА
 ЧЕТВ. ПИРАМИДА

$a = \Delta = 6 \text{ cm}$ (омотај тине 4
 једнакостр. Δ)



404. (33ч)

ЈЕДНАКОУБИЧНА
 ТРОСТР. ПИРАМИДА ($a = \Delta$)

→ ТЕТРАЕДАР

$$P = B + 12 \sqrt{3} \text{ cm}^2$$

$V = ?$

ОМОТАЈ ЧИНЕ 3
 ЈЕДНАКОСТР. Δ

$$P = B + M$$

$$P = B + 12 \sqrt{3} \text{ cm}^2$$

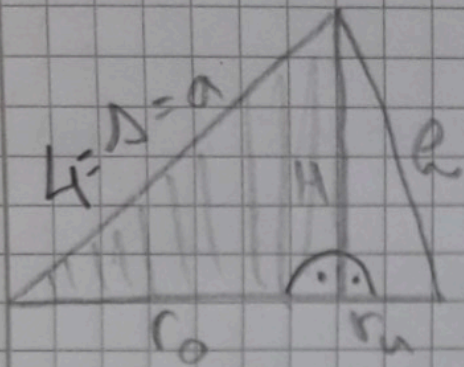
$$\Rightarrow M = 12 \sqrt{3} \text{ cm}^2$$

$$B = \frac{12 \sqrt{3}}{3}$$

$$B = \frac{a^2 \sqrt{3}}{4} \quad 4 \sqrt{3} = \frac{a^2 \sqrt{3}}{4}$$

$$B = 4 \sqrt{3} \text{ cm}^2$$

$$a^2 = 16 \quad | a = 4 \text{ cm}$$



$$r_0 = \frac{a\sqrt{3}}{3} = \frac{4\sqrt{3}}{3} \text{ cm}$$

$$h^2 = a^2 - r_0^2 = 4^2 - \left(\frac{4\sqrt{3}}{3}\right)^2$$

$$h^2 = 16 - \frac{16}{3} = \frac{16}{3} - \frac{16}{3} = \frac{48}{3}$$

$$h^2 = \frac{32}{3} \Rightarrow h = \sqrt{\frac{32}{3}} = \frac{\sqrt{32}}{\sqrt{3}}$$

$$h = \frac{4\sqrt{2}}{\sqrt{3}}$$

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

$$V = \frac{16\sqrt{2}}{3} \text{ cm}^3$$

ПОМАЉУ: 400. (334)