

STOŽAC

Razred: 2. e

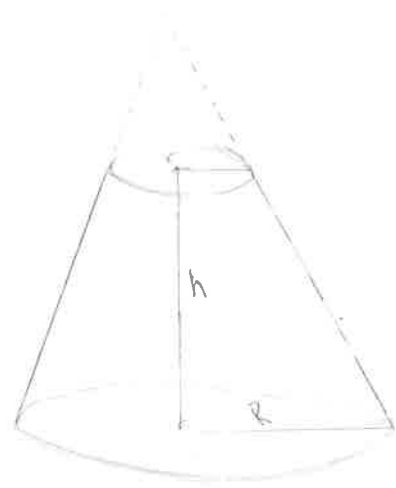
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# KRNJI STOŽAC

# PRIKAZ KRNJEG STOŠCA:

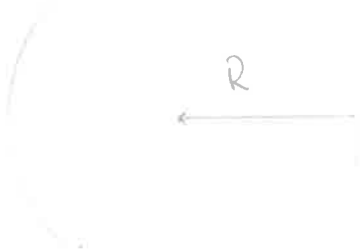
- Presijecanjem stošca ravninom paralelnom s ravninom baze dobivamo manji stožac

Sličan početnom i dio koji nazivamo KRNJI STOŽAC



# OPLOŠJE KRNJEG STOŠCA

- OPLOŠJE > 
$$O = R^2\pi + r^2\pi + S\pi(R+r)$$



# OBUJAM KRNJEG STOŠCA

- OBUJAM > 
$$V = \frac{\pi V}{3} (R^2 + R \cdot r + r^2)$$

$$S = 136 \pi \text{ cm}^2$$

$$B = 64 \pi \text{ cm}^2$$

$$V = 7$$

$$V = \frac{r^2 \pi h}{3}$$

$$V = \frac{8^2 \cdot \pi \cdot 15}{3}$$

$$V = 320 \pi \text{ cm}^3$$

$$B = r^2 \pi$$

$$64 \pi = r^2 \pi$$

$$r = 8$$

$$r = 8$$

$$P = r \pi s$$

$$S = \frac{P}{r \pi}$$

$$S = \frac{136 \pi}{8 \pi}$$

$$S = 17$$

$$h = \sqrt{s^2 - r^2}$$

$$h = \sqrt{17^2 - 8^2}$$

$$h = 15$$

$$7/V = 324 \pi \text{ cm}^3$$

$$h = 12 \text{ cm}$$

$$O = ?$$

$$O = 2 \pi r (r + s)$$

$$O = 2 \pi (9 + 15)$$

$$O = 216 \pi \text{ cm}^2$$

$$V = \frac{r^2 \pi h}{3} \cdot 3$$

$$3V = r^2 \pi h \cdot \pi h$$

$$r^2 = \frac{3V}{\pi h}$$

$$r = \sqrt{\frac{3 \cdot 324 \pi}{\pi \cdot 12}}$$

$$r = 9$$

$$S = \sqrt{h^2 + r^2}$$

$$S = \sqrt{12^2 + 9^2}$$

$$S = 15$$

11.

$$P_i = 20$$

$$L = 72^\circ$$

$$O = 2$$

$$O = r\pi(r+s)$$

$$P_i = \frac{s^2 \pi \alpha}{360^\circ}$$

$$s^2 = \frac{P_i \cdot 360^\circ}{\pi \alpha}$$

$$s = 5.64$$

$$r = 2$$

$$O = \frac{s\pi\alpha}{180^\circ} = 7.1$$

$$O = 2r\pi$$

$$r = \frac{O}{2\pi} = 1.13$$

$$O = 24$$



14.

$$r_1 = 8$$

$$L = 135^\circ$$

$$O = r\pi(r+s)$$

$$s = 2$$

$$e = 0$$

$$O = \frac{r\pi\alpha}{180^\circ} = 6\pi$$

$$O = 2r\pi$$

$$3\pi = 2r_2\pi$$

$$3 = r_2$$

$$r_1 = 5$$

$$O = 33\pi$$

$$V = \frac{r_2^2 \pi R}{3}$$

$$R^2 = s^2 - r_2^2$$

$$R = \sqrt{s^2 - r_2^2}$$

$$V = \frac{r_2^2 \pi \sqrt{s^2 - r_2^2}}{3}$$

$$V = \frac{3\pi \sqrt{55}}{3}$$

