

ZN / str 166 / mol 6

STOŽEC

$$P = 207\pi \text{ m}^2$$

$$r = 9 \text{ m}$$

$$pl =$$

$$pl = \pi r s$$

$$P = \sigma + pl$$

$$207\pi = 81\pi + pl$$

$$pl = 207\pi - 81\pi$$

$$pl = 126\pi \text{ cm}^2$$

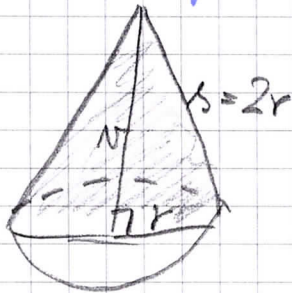
$$\sigma = \pi r^2$$

$$\sigma = \pi \cdot 81$$

ZN str 166 / mol 11

ENAKOSTRANIČNI STOŽEC ($2r = s$)

osni presek = enakostranični trikotnik, ki ima stranice s , oziroma $2r$



PODATEK

$$p = 9\sqrt{3} \text{ cm}^2$$

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

$$9\sqrt{3} = \frac{s^2\sqrt{3}}{4} \cdot 4$$

$$36\sqrt{3} = s^2\sqrt{3}$$

$$s^2 = 36$$

$$s = 6 \text{ cm}$$

$$s = 6 \text{ cm}$$

$$2r = s$$

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

$$r = \frac{s}{2}$$

$$P = \sigma + pl$$

$$P = \pi r^2 + 2\pi r s$$

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

$$P = \pi \cdot 3 (3 + 6)$$

$$P = 3\pi \cdot 9$$

$$P = 27\pi \text{ cm}^2$$

$$V = \frac{\sigma \cdot h}{3}$$

$$V = \frac{9\pi \cdot 3\sqrt{3} \cdot 1}{3 \cdot 1}$$

$$V = 9\sqrt{3}\pi \text{ cm}^3$$

$$\sigma = \pi r^2$$

$$\sigma = \pi \cdot 3^2$$

$$\sigma = 9\pi \text{ cm}^2$$

$$N^2 = s^2 - r^2$$

$$N^2 = 6^2 - 3^2$$

$$N^2 = 36 - 9$$

$$N^2 = 27$$

$$N = \sqrt{27} = \sqrt{9 \cdot 3}$$

$$N = 3\sqrt{3}$$

ZN 2 / str 166 / nal 2 a)

a) STOŽEC

$$r = 6 \text{ cm}$$

$$N = 8 \text{ cm}$$

$$P = 96\pi \text{ cm}^2$$

$$V = 96\pi \text{ cm}^3$$



$$P = \sigma + pl$$

$$P = \pi r^2 + \pi r s$$

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

$$P = \pi \cdot 6 (6 + 10)$$

$$P = 6\pi \cdot 16$$

$$P = 96 \text{ cm}^2$$

$$s^2 = r^2 + N^2$$

$$s^2 = 6^2 + 8^2$$

$$s^2 = 64 + 36$$

$$s^2 = 100$$

$$s = 10 \text{ cm}$$

$$V = \frac{Q \cdot N}{3}$$

$$\sigma = \pi r^2$$

$$V = \frac{36\pi \cdot 8 \cdot 12}{3 \cdot 1}$$

$$\sigma = \pi \cdot 36$$

$$V = 96\pi \text{ cm}^3$$

ZN 2 / str 166 / nal 2 b)

b) STOŽEC

$$2r = 16 \text{ m}$$

$$s = 17 \text{ m}$$

$$P = 200\pi \text{ m}^2$$

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

$$r = 8 \text{ m}$$

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

$$P = \pi \cdot 8 (8 + 17)$$

$$P = 8\pi \cdot 25$$

$$P = 200\pi \text{ m}^2$$

$$V = \frac{Q \cdot N}{3}$$

$$V = \frac{64\pi \cdot 15 \cdot 5}{3 \cdot 1}$$

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

$$N^2 = s^2 - r^2$$

$$N^2 = 17^2 - 8^2$$

$$N^2 = 289 - 64$$

$$N^2 = 225$$

$$N = 15 \text{ m}$$

$$\sigma = \pi r^2$$

$$\sigma = \pi \cdot 64$$

$$\sigma = 64\pi \text{ m}^2$$