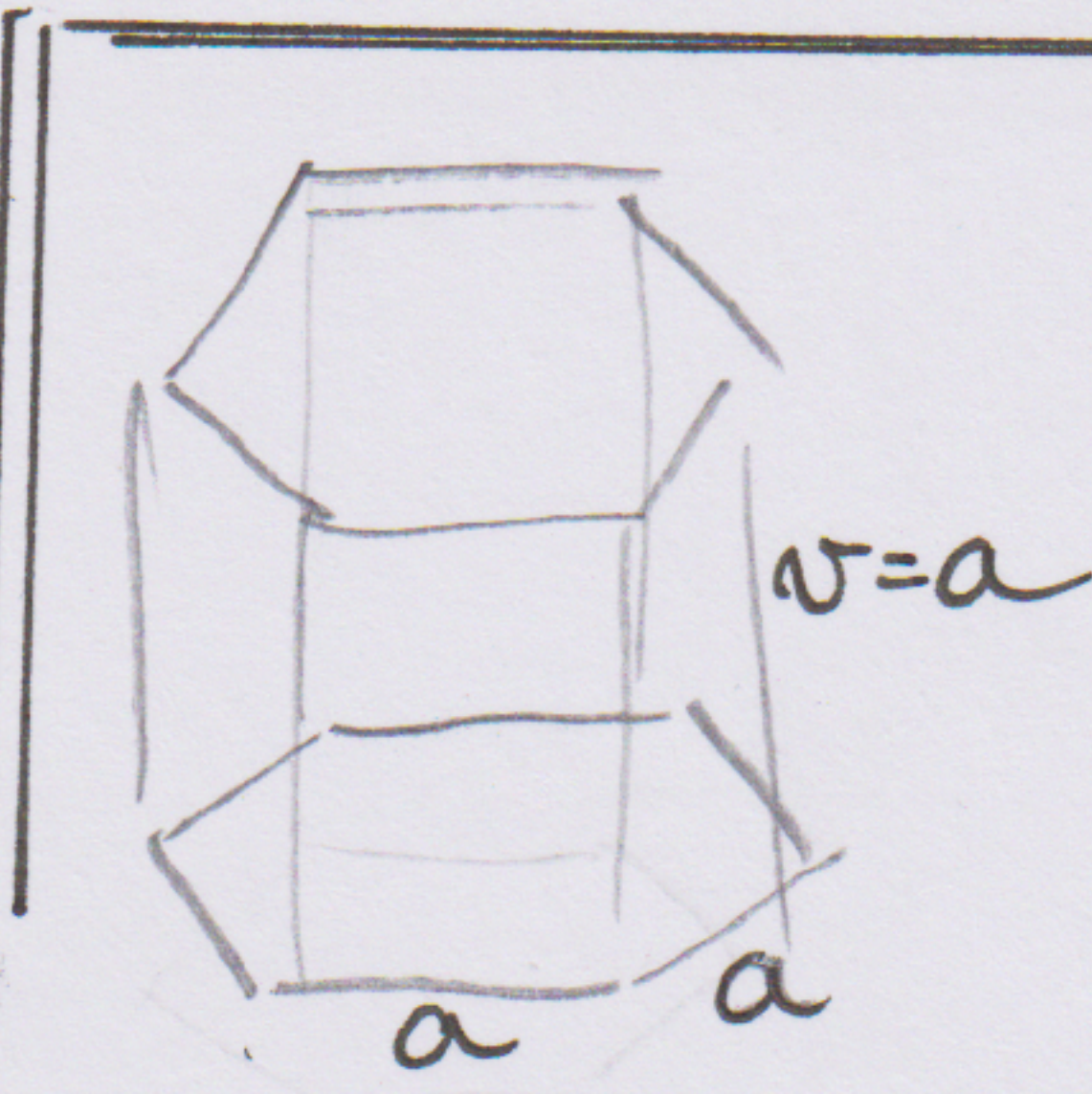
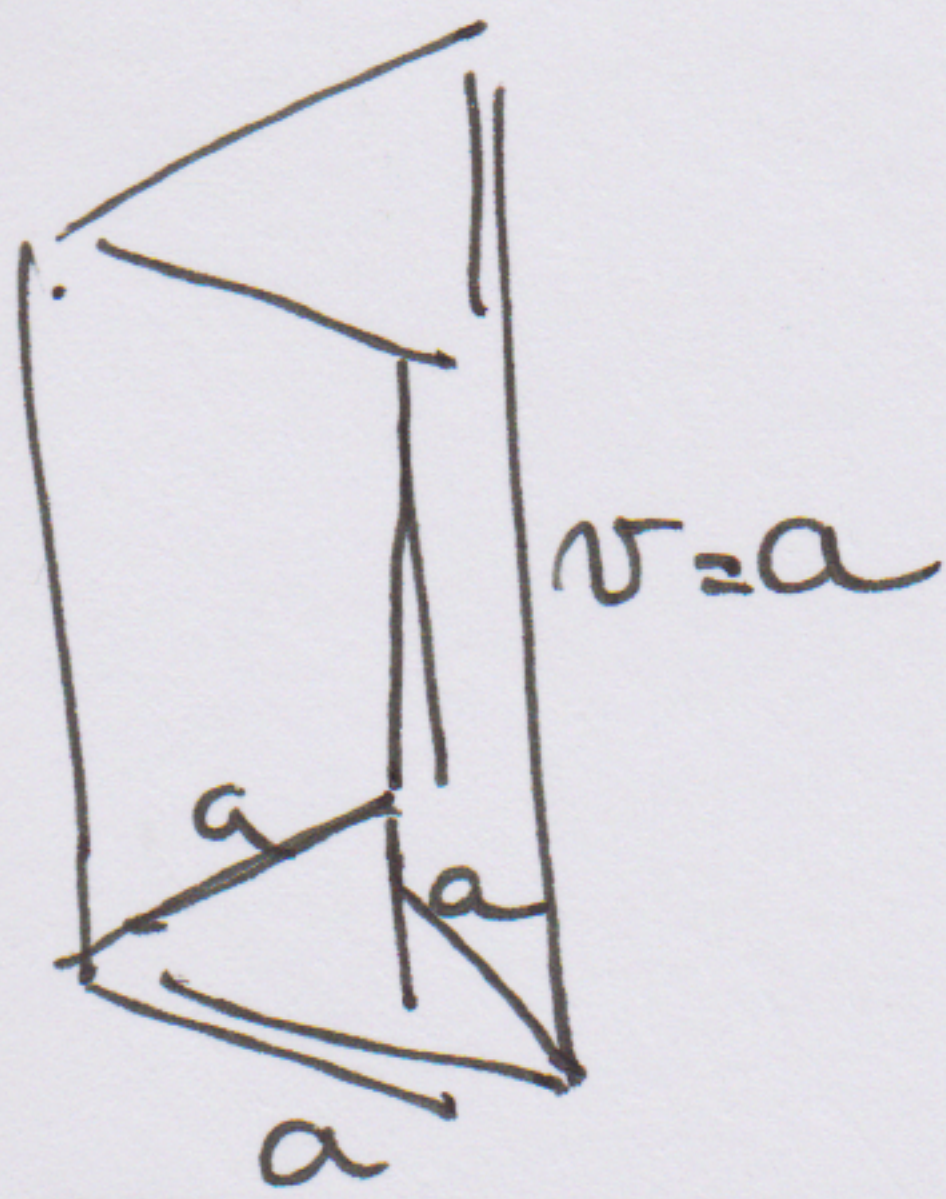


PRIZMA

10 ENAKOROBNA 3-STRANA PRIZMA

$$\begin{aligned}
 pl &= 432 \text{ cm}^2 & pl &= 3a \cdot a & V &= \sigma \cdot v & \sigma &= \frac{a^2 \sqrt{3}}{4} \\
 V & & pl &= 3a^2 & V &= 36 \sqrt{3} \cdot 12 & \sigma &= \frac{12 \cdot 12 \sqrt{3} \cdot 3}{4} \\
 & & 3a^2 &= pl & V &= 432 \sqrt{3} \text{ cm}^3 & \sigma &= \frac{36 \sqrt{3} \text{ cm}^2}{4} \\
 a &= \sqrt{\frac{pl}{3}} & & & & & & \\
 a &= \sqrt{\frac{432}{3}} & & & & & & \\
 a &= 12 \text{ cm} & & & & & &
 \end{aligned}$$



$$\begin{aligned}
 V &= \sigma \cdot v = \sigma \cdot a & \sigma &= 6 \frac{a^2 \sqrt{3}}{4} \\
 V &= \frac{6a^2 \sqrt{3} \cdot a}{4} & & & & & &
 \end{aligned}$$

$$\begin{aligned}
 V &= \frac{3a^3 \sqrt{3}}{2} & a^3 &= 4096 \\
 a &= \sqrt[3]{4096} & a &= 16 \text{ cm} \\
 a &= 16 \text{ cm} & & & & & &
 \end{aligned}$$

11 ENAKOROBNA 6-STRANA PRIZMA

$$\begin{aligned}
 V &= 6144 \sqrt{3} \text{ cm}^3 & pl &= 6 \cdot a^2 & & & & \\
 P &= 2 \cdot \sigma + pl & pl &= 6 \cdot 16^2 & & & & \\
 P &= 2 \cdot 384 \sqrt{3} + 1536 & pl &= 1536 \text{ cm}^2 & & & & \\
 P &= (768 \sqrt{3} + 1536) \text{ cm}^2 & & & & & &
 \end{aligned}$$

$$a^3 = \frac{2 \cdot V}{3 \sqrt{3}}$$

$$a^3 = \frac{2 \cdot 6144 \sqrt{3}}{3 \sqrt{3}}$$

$$\begin{aligned}
 \sigma &= 6 \cdot 16 \cdot 16 \sqrt{3} \cdot 4 \\
 \sigma &= 384 \sqrt{3} \text{ cm}^2
 \end{aligned}$$

12 PRAVILNA 4-STRANA PRIZMA

$$\begin{aligned}
 P &= 312 \text{ dm}^2 & 2 \cdot 3x + 10x &= 312 \\
 \sigma : pl &= 3 : 10 & 2 \cdot \sigma + pl &= P \\
 6x + 10x &= 312 & & \\
 16x &= 312 & & \\
 x &= 19,5 \text{ dm}^2 & &
 \end{aligned}$$

$$\sigma = 3 \cdot x = 3 \cdot 19,5 \text{ dm}^2 = 58,5 \text{ dm}^2$$

$$pl = 10 \cdot x = 10 \cdot 19,5 \text{ dm}^2 = 195 \text{ dm}^2$$

$$pl = 4 \cdot a \cdot v$$

$$\sigma = a^2$$

$$v = \frac{pl}{4 \cdot a}$$

$$a = \sqrt{58,5}$$

$$a = 7,6 \text{ dm}$$

$$v = \frac{195}{4 \cdot 7,6}$$

$$V = \sigma \cdot v$$

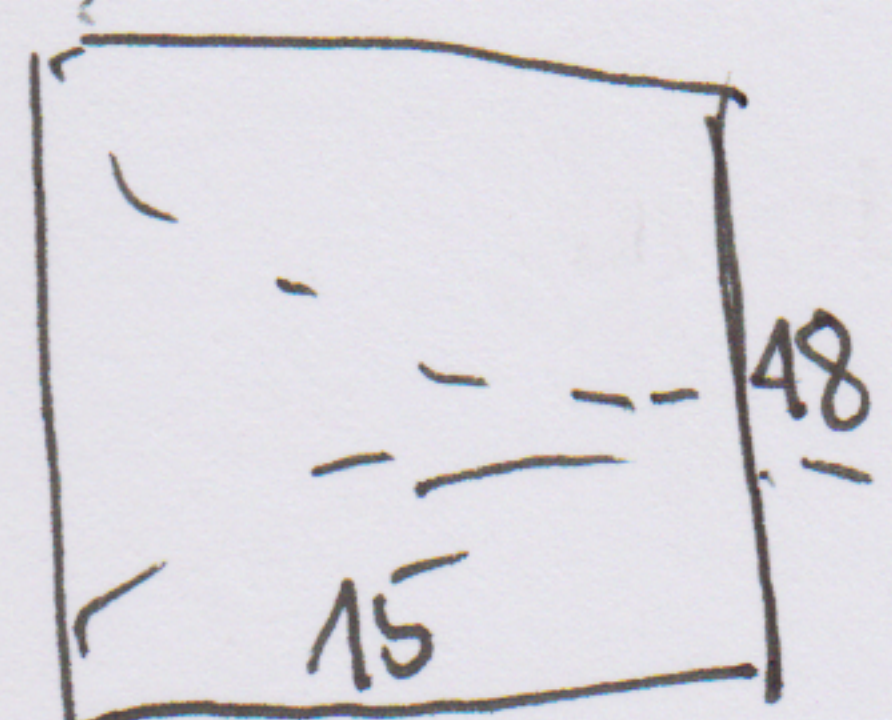
$$V = 58,5 \cdot 6,4$$

$$V = 374,4 \text{ dm}^3$$

VALJ

$$\begin{aligned}
 \sigma &= 36 \pi \text{ cm}^2 & P &= 2\sigma + pl & V &= \sigma \cdot v & pl &= \sigma \cdot v & \sigma &= 36 \pi & r &= \sqrt{\frac{36 \pi}{\pi}} \\
 pl &= 36 \pi \text{ cm}^2 & P &= 2 \cdot 36 \pi + 36 \pi & V &= 36 \pi \cdot 3 & v &= \frac{pl}{2 \pi r} & \sigma &= \pi r^2 & r &= 6 \text{ cm} \\
 & & P &= 108 \pi \text{ cm}^2 & V &= 108 \pi \text{ cm}^3 & v &= \frac{36 \pi}{2 \cdot \pi \cdot 6} & \pi r^2 &= \sigma & r &= \sqrt{\frac{\sigma}{\pi}} \\
 & & & & & & v &= 3 \text{ cm} & & & &
 \end{aligned}$$

13 VALJ



$$18 = v$$

$$15 = r$$

$$v = 18 \text{ cm}$$

$$r = 15 \text{ cm}$$

$$P =$$

$$V =$$

$$P = 2\sigma + pl$$

$$P = 2 \cdot 225 \pi + 540 \pi$$

$$P = 990 \pi \text{ cm}^2$$

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

$$\sigma = 15^2 \pi$$

$$\sigma = 225 \pi \text{ cm}^2$$

$$pl = \sigma \cdot v$$

$$pl = 2 \pi r \cdot v$$

$$pl = 2 \cdot \pi \cdot 15 \cdot 18$$

$$pl = 540 \pi \text{ cm}^2$$

$$V = \sigma \cdot v$$

$$V = 225 \pi \cdot 18$$

$$V = 4050 \pi \text{ cm}^3$$