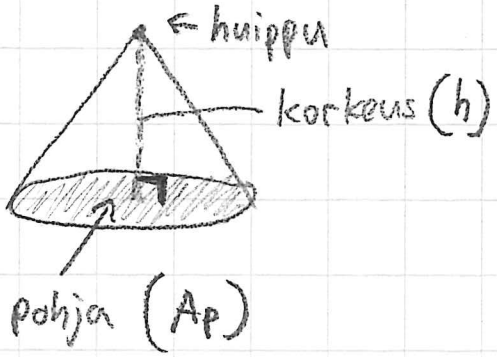
5.27 **Kartio**



tilavuus

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

5.29 (75) ympyräkartio

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

a) $r = 2{,}0\ cm$, $h = 3{,}2\ cm$, $\pi \approx 3{,}14$

$$V = \frac{3{,}14 \cdot 2\ cm \cdot 2\ cm \cdot 3{,}2\ cm}{3}$$

$$= 13{,}39\ldots\ cm^3 \approx 13\ cm^3$$

b) $r = \frac{5{,}6\ m}{2} = 2{,}8\ m$ $h = 1{,}6\ m$

$$V = \frac{3{,}14 \cdot 2{,}8\ m \cdot 2{,}8\ m \cdot 1{,}6\ m}{3}$$

$$= 13{,}129\ldots\ m^3 \approx 13\ m^3$$

c) $$V = \frac{3{,}14 \cdot 125\ mm \cdot 125\ mm \cdot 68\ mm}{3}$$

$$= 1\,112\,083{,}33\ldots\ mm^3$$

$$\approx 1\,100\,000\ mm^3 \quad (:1000)$$

$$= 1\,100\ cm^3 \quad (:1000)$$

$$= 1{,}1\ dm^3$$

(76) Pyramidi $V = \frac{A_p \cdot h}{3}$

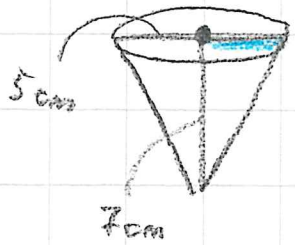
a) $V = \frac{6{,}2\ \text{cm} \cdot 6{,}2\ \text{cm} \cdot 4{,}8\ \text{cm}}{3}$ (A_p, h)

$= 61{,}504\ \text{cm}^3 \approx 61{,}5\ \text{cm}^3$ (TAI $62\ \text{cm}^3$)

b) $V = \frac{3{,}5\ \text{cm} \cdot 4{,}2\ \text{cm} \cdot 5{,}2\ \text{cm}}{3}$

$= 25{,}48\ \text{cm}^3 \approx 25{,}5\ \text{cm}^3$ (TAI $25\ \text{cm}^3$)

(77) Jäätelötuutti (ympyrätartio)



$d = 5\text{cm}$ $r = \frac{5\text{cm}}{2} = 2{,}5\text{cm}$

$h = 7\text{cm}$

$V = \frac{\pi \cdot 2{,}5\text{cm} \cdot 2{,}5\text{cm} \cdot 7\text{cm}}{3}$ (π, r^2, h)

$= 45{,}791\ldots\ \text{cm}^3$

$\approx 46\ \text{cm}^3$ ($:1000$)

$= 0{,}046\ \text{dm}^3$

$= 0{,}046\ \text{l}$ (litraa) ($\cdot 10$)

$= 0{,}46\ \text{dl}$

s. 31 (89) (90 A)