

# Kartio s. 27

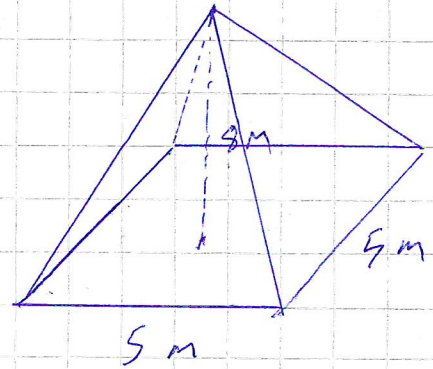
## Pyramidi

$$A_p = 5\text{m} \cdot 5\text{m} = 25\text{m}^2$$

$$V = \frac{A_p \cdot h}{3} = \frac{25\text{m}^2 \cdot 8\text{m}}{3}$$

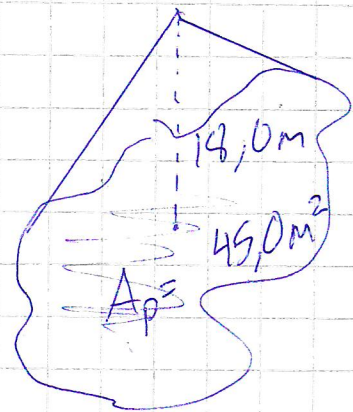
$$= 66,66... \text{m}^3 \approx 70 \text{m}^3$$

tai  $\approx 67 \text{m}^3$



$$V = A_p \cdot h = \frac{450\text{m}^2 \cdot 18\text{m}}{3}$$

$$= 270\text{m}^3$$

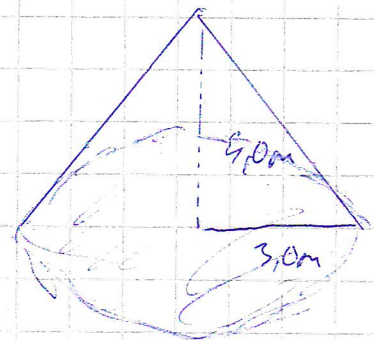


## ympyräkartio

$$A_p = 3,14 \cdot (3,0\text{m})^2 = 28,26\text{m}^2$$

$$V = \frac{28,26\text{m}^2 \cdot 5,0\text{m}}{3}$$

$$= 47,1\text{m}^3$$



teht. s. 29 t. 74, 75, 76  
kotitehtävät 88, 89, 90 s. 31

68, 69, 70 S. 25

68 a)  $V = A_p \cdot h = 7 \text{ m}^2 \cdot 2 \text{ m} = 14 \text{ m}^3$

b)  $V = A_p \cdot h = 67 \text{ mm}^2 \cdot 8 \text{ mm} = 536 \text{ mm}^3$

c)  $V = A_p \cdot h = 3,5 \text{ m}^2 \cdot 1,4 \text{ m} = 4,9 \text{ m}^3$

~~68~~

69) a)  $A_p = \pi \cdot (12,0 \text{ m})^2$   
 $= 3,14 \cdot (12,0 \text{ m})^2 = 452,16 \text{ m}^2$   
 $= 452,389... \text{ m}^2$

$V = A_p \cdot h = 452,389... \text{ m}^2 \cdot 6,0 \text{ m} = 2714,33 \text{ m}^3 \approx 2700 \text{ m}^3$

b)  $A_p = 3,14 \cdot (0,5 \text{ m})^2 = 0,785 \text{ m}^2$   $d = 1,0 \text{ m}$   
 $V = A_p \cdot h = 0,785 \text{ m}^2 \cdot 40 \text{ m} = 1,57 \text{ m}^3$   $r = 0,5 \text{ m}$   
 $\approx 1,6 \text{ m}^3$

c)  $A_p = 3,14 \cdot (1,0 \text{ cm})^2 = 3,14 \text{ cm}^2$

$V = A_p \cdot h = 3,14 \text{ cm}^2 \cdot 8,0 \text{ cm} = 25,12 \text{ cm}^3 \approx 25 \text{ cm}^3$

70) a)  $V = 3,0 \text{ m} \cdot 2,0 \text{ m} \cdot 6,0 \text{ m} = 36,0 \text{ m}^3 \approx 36 \text{ m}^3$

b)  $V = 6,0 \text{ mm} \cdot 4,0 \text{ mm} \cdot 5,0 \text{ mm} = 120,0 \text{ mm}^3 \approx 120 \text{ mm}^3$

c)  $A = 2,5 \text{ cm} \cdot 2,0 \text{ cm} : 2 = 2,5 \text{ cm}^2$

$V = A_p \cdot h = 2,5 \text{ cm}^2 \cdot 3,5 \text{ cm} = 8,75 \text{ cm}^3 \approx 8,8 \text{ cm}^3$