

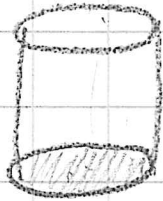
S.21 Lieriön tilavuus

$$V = A_p \cdot h$$

S.23

52

a)  $A_p = 20 \text{ cm}^2$   
 $h = 5 \text{ cm}$

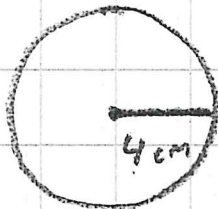


$$V = 20 \text{ cm}^2 \cdot 5 \text{ cm} \\ = 100 \text{ cm}^3$$

b)  $V = 25 \text{ m}^2 \cdot 5 \text{ m}$   
 $= 125 \text{ m}^3$

c)  $V = 100 \text{ cm}^2 \cdot 7 \text{ cm}$   
 $= 700 \text{ cm}^3$

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a)

$$A = \pi r^2$$

$$A_p = 3,14 \cdot (4 \text{ cm})^2 \\ = 50,24 \text{ cm}^2 \\ h = 6 \text{ cm}$$

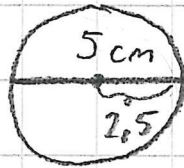
$$V = 50,24 \text{ cm}^2 \cdot 6 \text{ cm} \\ = 301,44 \text{ cm}^3 \\ (\approx 300 \text{ cm}^3)$$

$$b) A_p = 3,14 \cdot (2 \text{ m})^2 \quad h = 7 \text{ m}$$

$$= 12,56 \text{ m}^2$$

$$V = 12,56 \text{ m}^2 \cdot 7 \text{ m}$$

$$= 87,92 \text{ m}^3 \quad (\approx 88 \text{ m}^3)$$

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

$$A_p = 3,14 \cdot (2,5 \text{ cm})^2 \quad h = 5 \text{ cm}$$

$$= 19,625 \text{ cm}^2$$

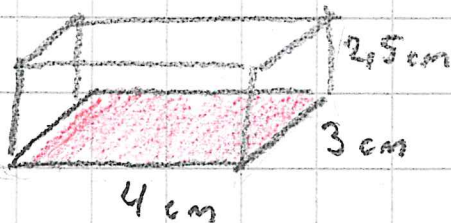
$$V = 19,625 \text{ cm}^2 \cdot 5 \text{ cm}$$

$$= 98,125 \text{ cm}^3 \quad (\approx 98 \text{ cm}^3)$$

S.24

54

a)  $A_p = 4 \text{ cm} \cdot 3 \text{ cm} = 12 \text{ cm}^2$   
 $h = 2,5 \text{ cm}$



$$V = \overset{A_p}{12 \text{ cm}^2} \cdot \overset{h}{2,5 \text{ cm}}$$

$$= 30 \text{ cm}^3$$

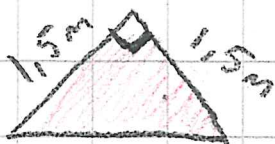
S.25

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b)  $V = \overset{A_p}{2 \text{ cm} \cdot 2 \text{ cm}} \cdot \overset{h}{8 \text{ cm}}$   
 $= 32 \text{ cm}^3$

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c)  $A_p = \frac{1,5 \text{ m} \cdot 1,5 \text{ m}}{2} = 1,125 \text{ m}^2$



$$V = 1,125 \text{ m}^2 \cdot 2 \text{ m}$$

$$= 2,25 \text{ m}^3$$

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