

S.210

964

$$A = \pi r^2$$

$$\uparrow$$

$$\approx 3,14$$

$$706,5 \approx 707$$

$$706,4 \approx 706$$

a) säde $r = 15\text{ m}$

$$A = 3,14 \cdot (15\text{ m})^2$$

$$= 3,14 \cdot 225\text{ m}^2$$

$$= 706,5\text{ m}^2$$

$$\approx 707\text{ m}^2$$

b) halkaisija $d = 7,62\text{ cm}$

$$r = \frac{7,62\text{ cm}}{2} = 3,81\text{ cm}$$

$$A = 3,14 \cdot (3,81\text{ cm})^2$$

$$= 3,14 \cdot 14,5161\text{ cm}^2$$

$$= 45,580554\text{ cm}^2$$

$$\approx \underline{46\text{ cm}^2} \quad \text{tai} \quad \approx \underline{45,6\text{ cm}^2}$$

c) läpimitta/halkaisija

$$d = 25,75\text{ mm} \quad r = \frac{25,75\text{ mm}}{2}$$

$$= 12,875\text{ mm}$$

$$A = 3,14 \cdot (12,875\text{ mm})^2$$

$$= 3,14 \cdot 165,765625\text{ mm}^2$$

$$= 520,504\dots\text{ mm}^2$$

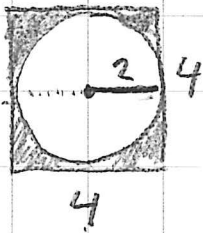
$$\approx \underline{521\text{ mm}^2} \quad \text{tai} \quad \approx \underline{520,5\text{ mm}^2}$$

d) halkaisija $d = 1\text{ m}$
 säde $r = \frac{1\text{ m}}{2} = 0,5\text{ m}$

$$\begin{aligned}
 A &= 3,14 \cdot (0,5\text{ m})^2 \\
 &= 3,14 \cdot 0,25\text{ m}^2 \\
 &= 0,785\text{ m}^2 \\
 &\approx 0,8\text{ m}^2
 \end{aligned}$$

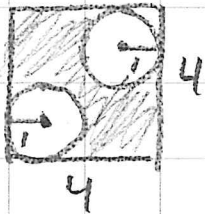
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a)



$$\begin{aligned}
 A &= A_{\square} - A_{\circ} \\
 &= 4\text{ cm} \cdot 4\text{ cm} - 3,14 \cdot (2\text{ cm})^2 \\
 &= 16\text{ cm}^2 - 12,56\text{ cm}^2 \\
 &= 3,44\text{ cm}^2 \\
 &\approx 3\text{ cm}^2
 \end{aligned}$$

b)



$$\begin{aligned}
 A &= A_{\square} - A_{\circ} \cdot 2 \\
 &= 4\text{ cm} \cdot 4\text{ cm} - 3,14 \cdot (1\text{ cm})^2 \cdot 2 \\
 &= 16\text{ cm}^2 - 6,28\text{ cm}^2 \\
 &= 9,72\text{ cm}^2 \\
 &\approx 10\text{ cm}^2
 \end{aligned}$$