

REŠITVE Včb, str. 174, 175

1. b) $d = 4 \text{ cm} \Rightarrow r = 2 \text{ cm}$
 $d = 180^\circ$

$\rho_{iz} = ?$

$\rho_{iz} = \frac{\pi r^2}{2} = \frac{3,14 \cdot 2^2}{2}$

$\rho_{iz} = \frac{3,14 \cdot 4^2}{2} = \underline{\underline{6,28 \text{ cm}^2}}$

2. a) $\rho = 30 \text{ cm}^2$
 $\alpha = 120^\circ$

1. $\rho_{iz} = ?$

1. način

$\rho_{iz} = \frac{\rho \cdot d}{360^\circ}$

$\rho_{iz} = \frac{30 \cdot 120^\circ}{360^\circ} = 10$

$\rho_{iz} = \underline{\underline{10 \text{ cm}^2}}$

2. način

$\frac{120^\circ}{360^\circ} = \frac{1}{3}$

$\rho_{iz} = \frac{\rho}{3} = \frac{30}{3}$

$\rho_{iz} = \underline{\underline{10 \text{ cm}^2}}$

3. c) $d = 18 \text{ cm} \Rightarrow r = 9 \text{ cm}$
 $\alpha = 270^\circ$

$\rho_{iz} = ?$

1. način

$\rho_{iz} = \frac{\pi r^2 d}{360^\circ}$

$\rho_{iz} = \frac{3,14 \cdot 9^2 \cdot 270^\circ}{360^\circ \cdot 4}$

$\rho_{iz} = \frac{3,14 \cdot 81 \cdot 3}{4}$

$\rho_{iz} = \frac{763,02}{4}$

$\rho_{iz} = \underline{\underline{190,755 \text{ cm}^2}}$

$763,02 : 4 = 190,755$
 36
 03
 30
 22
 20

2. način

$\frac{270^\circ}{360^\circ} = \frac{3}{4}$

$\rho_{iz} = \frac{3 \cdot \rho}{4}$

$\rho_{iz} = \frac{3 \cdot \pi \cdot r^2}{4}$

$\rho_{iz} = \frac{3 \cdot 3,14 \cdot 81}{4}$

$\rho_{iz} = \frac{763,02}{4}$

$\rho_{iz} = \underline{\underline{190,755 \text{ cm}^2}}$