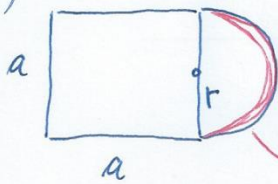


### 3. URA - UTAJJEVANJE - REŠITVE

U št. 167/3

a)



$$a = 6 \text{ cm}$$

$$r = 6 : 2$$

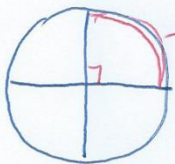
$$r = 3 \text{ cm}$$

$$\sigma = 2\pi \cdot r = 2 \cdot 3,14 \cdot 3 = 18,84 \text{ cm}$$

$$l = \frac{\sigma}{2} = \frac{18,84}{2} = \underline{\underline{9,42 \text{ cm}}}$$

lok je enak polovici  
obsega kroga

b)



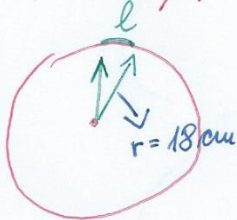
$$r = 4 \text{ cm}$$

$$\sigma = 2\pi \cdot r = 2 \cdot 3,14 \cdot 4 = 25,12 \text{ cm}$$

$$l = \frac{\sigma}{4} = \frac{25,12}{4} = \underline{\underline{6,28 \text{ cm}}}$$

lok je enak četrtini  
obsega kroga

U št. 167/4



12 min =  $\frac{12}{60}$  od  $360^\circ$ , ker v 60 minutah  
krožnica naredi polni kot  $360^\circ$

$$\frac{12}{60} \text{ od } 360^\circ = (360^\circ : 60) \cdot 12 = \underline{\underline{72^\circ}}$$

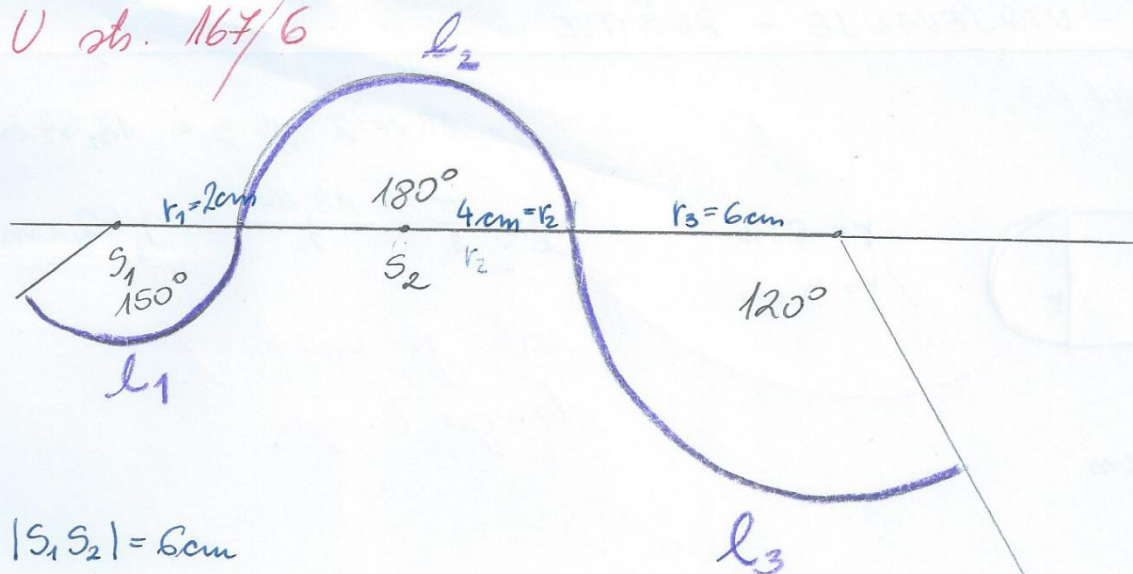
$$L = 72^\circ$$

$$r = 18 \text{ cm}$$

$$l = \frac{\pi \cdot r \cdot L}{180^\circ} = \frac{3,14 \cdot 18 \cdot 72^\circ}{180^\circ} = \underline{\underline{22,6 \text{ cm}}}$$

Krožnica minutnega kazalca prepotuje  $22,6 \text{ cm}$ .

U zb. 167/6



$$|S_1 S_2| = 6 \text{ cm}$$

$$|S_2, S_3| = 10 \text{ cm}$$

$$r_2 = 4 \text{ cm}$$

$$r_1 = 6 - 4 = 2 \text{ cm}$$

$$r_3 = 10 - 4 = 6 \text{ cm}$$

$$l = l_1 + l_2 + l_3 =$$

$$= 5,2 + 12,56 + 12,56 =$$

$$= \underline{\underline{30,32 \text{ cm}}}$$

$$l_1 = \frac{\pi \cdot r_1 \cdot \alpha_1}{180^\circ} = \frac{3,14 \cdot 2 \cdot 150^\circ}{180^\circ} = 5,2 \text{ cm}$$

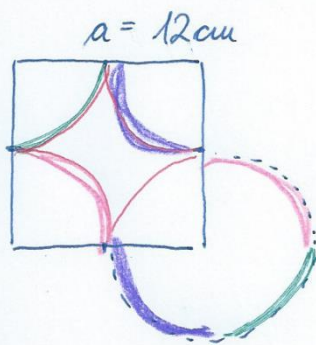
$$l_2 = \frac{\pi \cdot r_2 \cdot \alpha_2}{180^\circ} = \frac{3,14 \cdot 4 \cdot 180^\circ}{180^\circ} = 12,56 \text{ cm}$$

$$l_3 = \frac{\pi \cdot r_3 \cdot \alpha_3}{180^\circ} = \frac{3,14 \cdot 6 \cdot 120^\circ}{180^\circ} = 12,56 \text{ cm}$$

Dolžina krive čiste je približno 30,32 cm

U. št. 167/7

a)

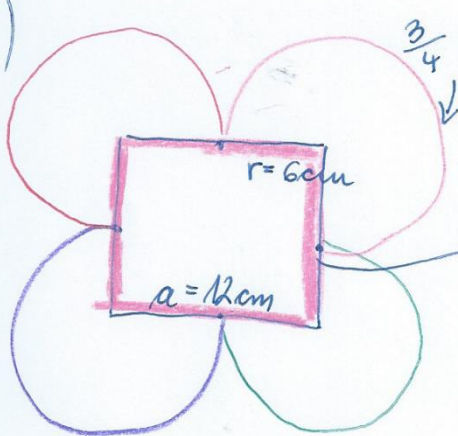


Če malo prerazporedimo lobe,  
dobimo 1 krog.

$$r = a : 2 = 12 : 2 = 6 \text{ cm}$$

$$\sigma = 2 \cdot \pi \cdot r = 2 \cdot 3,14 \cdot 6 = \underline{\underline{37,68 \text{ cm}}}$$

b)



$$\frac{3}{4} \cdot 4 = 3 \text{ krogi}$$

$$\text{obseg lika} = 3 \text{ KROGI} + 1 \text{ KVADRAT}$$

$$= 3 \cdot 37,68 + 48 =$$

$$= \underline{\underline{161,04 \text{ cm}}}$$

KROG

$$\sigma = 2 \cdot \pi \cdot r$$

$$\sigma = 2 \cdot 3,14 \cdot 6$$

$$\sigma = 37,68 \text{ cm}$$

KVADRAT

$$\sigma = 4 \cdot a$$

$$\sigma = 4 \cdot 12$$

$$\sigma = 48 \text{ cm}$$