Vč, str. 167, - REŠITVE (25. 3. 2020)

1, a) $r = 90\,cm$
$\alpha = 60°$
$l = ?$ $\quad l = \frac{r \cdot \alpha}{360°}$

$l = \frac{90° \cdot 60°}{360°} = \frac{90}{6} = 15\,cm$

ali $60° \dots \frac{1}{6}$ kroga

$l = \frac{90}{6} = 15\,cm$

c) $r = 90\,cm$
$\alpha = 120°$
$l = ?$

$l = \frac{r \cdot \alpha}{360°} = \frac{90 \cdot 120}{360} = 30\,cm$

ali $\frac{120}{360} = \frac{1}{3}$

$l = \frac{r}{3} = \frac{90}{3} = 30\,cm$

2. a) $r = 20\,cm$
$\alpha = 75°$

$l = \frac{2\pi r \alpha}{360°}$

$l = \frac{2 \cdot 3,14 \cdot 20 \cdot 75°}{360°}$

$l = \frac{78,5}{3} = 26,2\,cm$

b) $2r = 30\,cm$
$r = 15\,cm$
$\alpha = 120°$

$l = \frac{2\pi r \alpha}{360°}$

$l = \frac{2\pi \cdot 15 \cdot 120°}{360°}$

$l = 10 \cdot 3,14 = 31,4\,cm$

4. $r = 18\,cm$
$\alpha = 72°$

$l = \frac{2\pi r \alpha}{360°}$

$l = \frac{2 \cdot 3,14 \cdot 18 \cdot 72}{360}$

$l = \frac{113,04}{10} = 11,304\,cm$

60 min ... 360°
1 min .... 6°
12 min .... 72°

Konica kazalca prepotuje 11,304 cm.