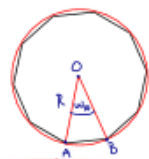


24-2-2025
3 Cptn
6+2.102

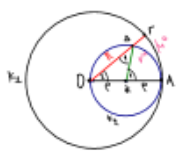
$R = 5 \text{ cm}$
 $\omega_{10} = \frac{360^\circ}{10} = 36^\circ$
 $\angle_{AB} = \frac{n \cdot 5 \cdot 36^\circ}{180^\circ} = n \text{ cm}$



26-2-2026
4) 6+2.102) Efn

$R, v\text{-czopis}, L \} R = 2p$
 $p, 2v\text{-czopis}, L \}$
 ΔYTH
 $vL = 2v \cdot l \Leftrightarrow v \cdot 2 \cdot n \cdot R = 2 \cdot v \cdot 2 \cdot p \Leftrightarrow$
 $\Rightarrow R = 2p$

1) a n d . $k_2(O, R), k_2(k, r), l_{AR} = l_{AB}, p = \frac{R}{2}$



ΔYTH
 $AR = k_1, AB = v$
 $v = k_1$ (circular arc from k1)
 $k_1 = \hat{O}_1$ (circular arc from k1)
 $k_1 = \hat{O}_1 + \hat{O}_2$ (us $\in \omega_1 \cap \omega_2$ from $\hat{O}_1 \hat{O}_2$)
 $O = k_1 \hat{O}_1 = p, \omega_1 \omega_2 = 2 \cdot O \hat{O}_1 \hat{O}_2 = 160^\circ \text{ m } \omega_1$
 $\text{On } \omega_1 \hat{O}_1 = \hat{O}_1$
 $\hat{O}_1 \omega_1 \hat{O}_1 = 2 \hat{O}_1 \hat{O}_1 \Rightarrow v = 2 \hat{O}_1$

$l_{AR} = \frac{n \cdot R \cdot k_1}{180^\circ}$
 $l_{AB} = \frac{n \cdot R \cdot v}{180^\circ} = \frac{n \cdot R \cdot 2 \hat{O}_1}{180^\circ} = \frac{n \cdot R \cdot k_1}{180^\circ} \} l_{AR} = l_{AB}$

3) an $\Delta BCR, a = 13 \text{ cm}, b = 14 \text{ cm}, c = 15 \text{ cm}$
i) $l = ?$ (circular arc from k1)
ii) $L = ?$ (circular arc from k1)
 ΔYTH
 $l = 2 \cdot n \cdot p, L = 2 \cdot n \cdot R$
i) $(\Delta BCR) = z \cdot p$
 $z = \frac{a+b+c}{2} = \frac{13+14+15}{2} = 21 \text{ cm}$
 $(\Delta BCR) = \sqrt{z(z-a)(z-b)(z-c)} = \sqrt{21(21-13)(21-14)(21-15)} =$
 $= \sqrt{21 \cdot 8 \cdot 7 \cdot 6} = \sqrt{7056} = 84 \text{ cm}^2$
 $\text{On } \omega_1 (\Delta BCR) = z \cdot p \Leftrightarrow 84 = 21 \cdot p \Leftrightarrow p = 4 \text{ cm}$
 $l = 2 \cdot n \cdot p = 2 \cdot n \cdot 4 = 8 \pi \text{ cm}$
ii) $(\Delta BCR) = \frac{a \cdot b \cdot c}{4R} \Leftrightarrow 84 = \frac{13 \cdot 14 \cdot 15}{4R} \Leftrightarrow 84 = \frac{2730}{4R} \Leftrightarrow$
 $336R = 2730 \Leftrightarrow R = 8,125 \text{ cm}$
 $L = 2 \cdot n \cdot R = 2 \cdot n \cdot 8,125 = 16,25 \pi \text{ cm}$

