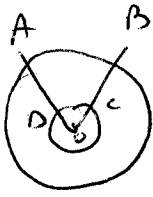


-3 (3)

$2r = 24 \quad 4$
 $6\pi = \frac{24\pi\alpha}{360} \rightarrow \alpha = 90$



היקף הקטן

$\widehat{CO} = \frac{2\pi R \cdot 120}{360} = \frac{2\pi R}{3}$

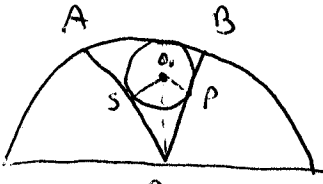
$\widehat{AB} = \frac{2\pi \cdot 2R \cdot 120}{360} = \frac{4\pi R}{3}$

$BC = AO = 2R - R = R$

$f_{היקף} = \widehat{AB} + BC + \widehat{OC} + AO = \frac{4\pi R}{3} + R + \frac{2\pi R}{3} + R = 2R + 2\pi R$

$n_{שטח} = A_{AOB} - A_{DOC} = \frac{\pi(2R)^2 \cdot 120}{360} - \frac{\pi R^2 \cdot 120}{360} = \frac{4\pi R^2}{3} - \frac{\pi R^2}{3} = \pi R^2$

-8



$(3,3,3) \triangle O, SO \cong O, PO$

\downarrow
 $\ast SO = OP = 30$

\downarrow

$SO_1 = \frac{1}{2} O_1O$

$r = \frac{1}{2}R - \frac{1}{2}r$

\leftarrow

$r = \frac{1}{2}(R-r)$
 \downarrow
 $r_{היקף}$

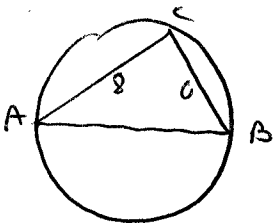
$\frac{1}{2}r = \frac{1}{2}R$

$r = \frac{R}{3}$

$f_{היקף} = AO + \widehat{AB} + BO + f_{היקף_{הקטן}} = R + \frac{2\pi R \cdot 60}{360} + R + 2\pi \frac{R}{3} =$
 $= 2R + \frac{2\pi R}{6} + \frac{2\pi R}{3} = 2R + \frac{2\pi R}{2} =$
 $= 2R + \pi R$

$n_{שטח} = A_{AOB} - n_{הקטן} = \frac{\pi R^2 \cdot 60}{360} - \pi \left(\frac{R}{3}\right)^2 = \frac{\pi R^2}{6} - \frac{\pi R^2}{9} = \frac{\pi R^2}{18}$

-10



(הקטן הריבועי) $\ast C = 90$

$AB^2 = 8^2 + 6^2 \rightarrow AB = 10$

$f_{היקף} = \widehat{AB} + AC + CB = \frac{2\pi \cdot 5 \cdot 180}{360} + 8 + 6 = 5\pi + 14$

\downarrow
 $R = 5$

<http://heshbonia.com/> כל הזכויות שמורות ל

$n_{שטח} = A_{AB} - n_{המלבן} = \frac{\pi \cdot (5)^2 \cdot 180}{360} - \frac{8 \cdot 6}{2} = 12.5\pi - 24$