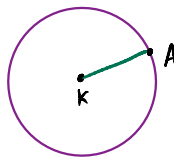


ΜΟΙΡΕΣ ΚΑΙ  
ΑΚΤΙΝΙΑ.

Περίμετρος κύκλου



$K = \text{κέντρο}$

$KA = \text{ακτίνα}$

$$\text{Περίμετρος κύκλου} = 2\pi \cdot |KA|$$

Μοναδιαίος κύκλος έχει

$$\text{Περίμετρος } 2\pi \cdot 1 = 2\pi$$

Ακτίνα μοναδιαίου κύκλου



Το τόξο  $\widehat{AB}$  έχει μήκος  $\kappa \cdot \pi$

ΜΟΙΡΕΣ  $\rightsquigarrow$  ΑΚΤΙΝΙΑ

ΑΚΤΙΝΙΑ  $\rightsquigarrow$  ΜΟΙΡΕΣ

$$\text{MOIPEZ} \longrightarrow \text{AKTINIA}$$


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$$0^\circ \longrightarrow 0$$

$$360^\circ \longrightarrow 2\pi$$

$$90^\circ = \frac{1}{4} \cdot 360^\circ \longrightarrow \frac{1}{4} \cdot 2\pi = \frac{\pi}{2}$$

$$45^\circ = \frac{1}{8} \cdot 360^\circ \longrightarrow \frac{1}{8} \cdot 2\pi = \frac{\pi}{4}$$

$$270^\circ = 3 \cdot 90^\circ \longrightarrow 3 \cdot \frac{\pi}{2} = \frac{3\pi}{2}$$

$$60^\circ = \frac{360^\circ}{6} \longrightarrow \frac{2\pi}{6} = \frac{\pi}{3}$$

$$180^\circ = 3 \cdot 60^\circ \longrightarrow 3 \cdot \frac{\pi}{3} = \pi$$

$$30^\circ = \frac{1}{2} \cdot 60^\circ \longrightarrow \frac{\frac{\pi}{3}}{2} = \frac{\pi}{6}$$

$$720^\circ = 2 \cdot 360^\circ \longrightarrow 2 \cdot 2\pi = 4\pi$$

$$1080^\circ = 3 \cdot 360^\circ \longrightarrow 3 \cdot 2\pi = 6\pi$$

$$135^\circ = 90^\circ + 45^\circ \longrightarrow \frac{\pi}{2} + \frac{\pi}{4} = \frac{3\pi}{4}$$

$$15^\circ = \frac{30^\circ}{2} \longrightarrow \frac{\frac{\pi}{6}}{2} = \frac{\pi}{12}$$

$$1^\circ = \frac{360^\circ}{360} \longrightarrow \frac{2\pi}{360} = \frac{\pi}{180}$$

$$361^\circ = 361 \cdot 1^\circ \longrightarrow 361 \cdot \frac{\pi}{180} = \frac{361\pi}{180}$$

$$315^\circ = 270^\circ + 45^\circ \longrightarrow \frac{3\pi}{2} + \frac{\pi}{4} = \frac{7\pi}{4}$$

## Συμπέρασμα

$$1^\circ \longrightarrow \frac{\pi}{180}$$

$$\chi^\circ \longrightarrow \chi \cdot \frac{\pi}{180}$$

$$123^\circ \longrightarrow \frac{123 \cdot \pi}{180}$$

$$237^\circ \longrightarrow \frac{237 \pi}{180}$$

$$\text{Ακτίνια} = \text{Μοίρες} \cdot \frac{\pi}{180}$$

$$\text{ΑΚΤΙΝΙΑ} \longrightarrow \text{ΜΟΙΡΕΣ}$$

$$\frac{\pi}{7} \longrightarrow \frac{180}{\pi} \cdot \frac{\pi}{7} = \frac{180^\circ}{7}$$

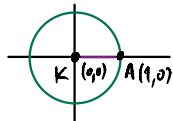
$$\frac{\pi}{18} \longrightarrow \frac{180}{18} = 10^\circ$$

$$\frac{3\pi}{10} \longrightarrow \frac{3}{10} \cdot 180^\circ = 54^\circ$$

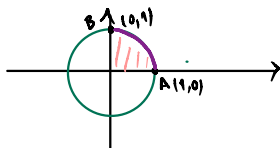
$$3\pi \longrightarrow 3 \cdot 180^\circ = 540^\circ$$

$$\frac{4\pi}{9} \longrightarrow \frac{4}{9} \cdot 180^\circ = 4 \cdot 20^\circ = 80^\circ$$

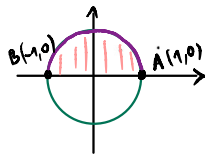
0 ακτίνια



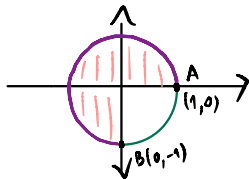
$\frac{\pi}{2}$  ακτίνια



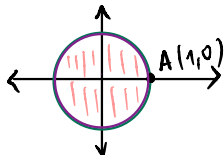
$\pi$  ακτίνια



$\frac{3\pi}{2}$  ακτίνια



$2\pi$  ακτίνια



$\frac{\pi}{4}$  ακτίνια

2

$\frac{\pi}{6}$  ακτίνια

2

$\frac{\pi}{3}$  ακτίνια

2