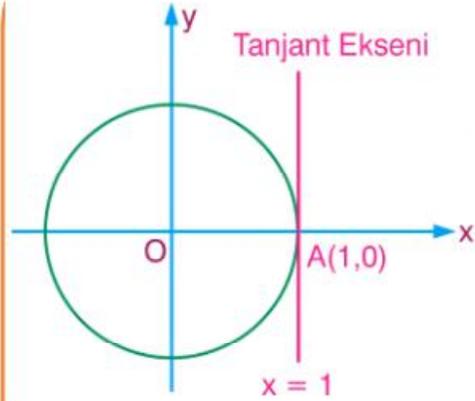
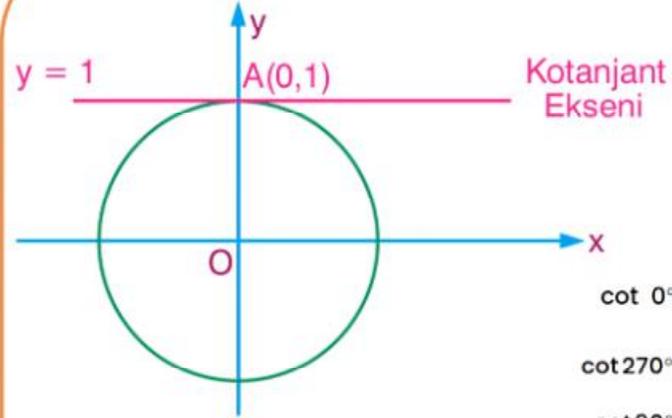


Tanjant Fonksiyonu

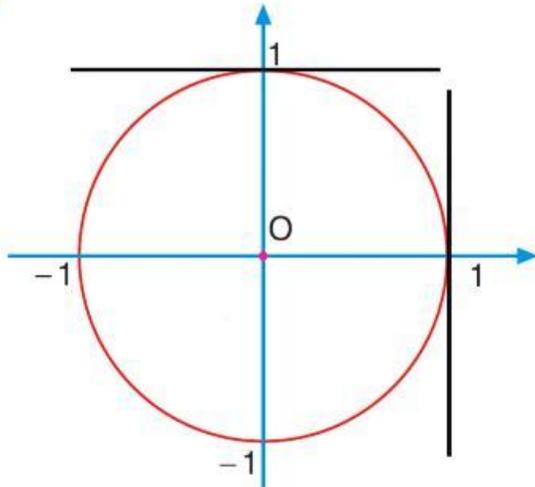


$$\begin{aligned}\tan 90^\circ &= \\ \tan 270^\circ &= \\ \tan 0^\circ &= \\ \tan 180^\circ &= \end{aligned}$$

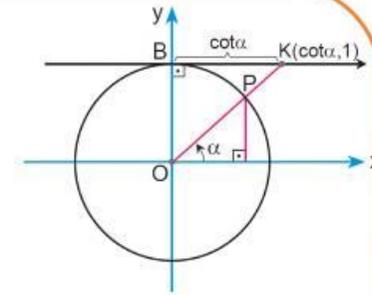
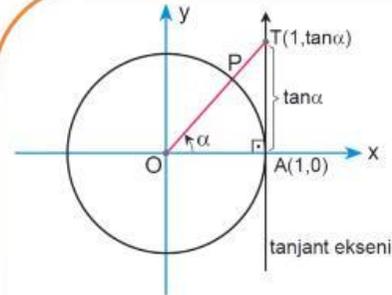
Kotanjant Fonksiyonu



$$\begin{aligned}\cot 0^\circ &= \\ \cot 270^\circ &= \\ \cot 90^\circ &= \\ \cot 180^\circ &= \end{aligned}$$



- I. Bölge
 $\tan \alpha \rightarrow$
 $\cot \alpha \rightarrow$
- II. Bölge
 $\tan \alpha \rightarrow$
 $\cot \alpha \rightarrow$
- III. Bölge
 $\tan \alpha \rightarrow$
 $\cot \alpha \rightarrow$
- IV. Bölge
 $\tan \alpha \rightarrow$
 $\cot \alpha \rightarrow$





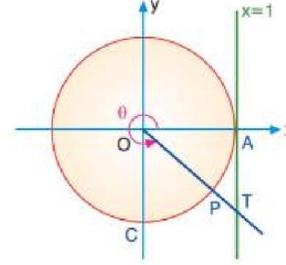
$$\tan \alpha = \frac{\sin \alpha}{\cos \alpha} \quad \cot \alpha = \frac{\cos \alpha}{\sin \alpha}$$



$$\tan \alpha \cdot \cot \alpha = 1$$



Aşağıda O merkezli birim çember ve $x=1$ doğrusu çizilmiştir. AOP pozitif yönlü açı ve $m(\widehat{AOP})=\theta$ dir.

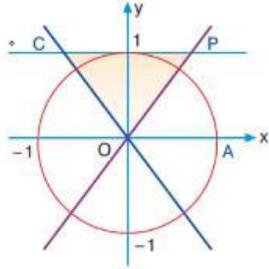


Buna göre, $|AT|$ ifadesi aşağıdakilerden hangisine eşittir?

- A) $1 + \sin \theta$ B) $1 - \cos \theta$ C) $\tan \theta$
D) $-\tan \theta$ E) $\cot \theta$



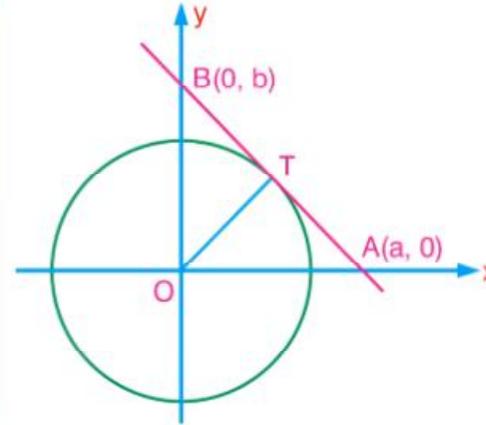
Aşağıda O merkezli birim çember ve $y=1$ doğrusu çizilmiştir.



$m(\widehat{AOP})=\alpha$ ve $m(\widehat{AOC})=\theta$ olduğuna göre, taralı bölgenin alanı aşağıdakilerden hangisidir?

- A) $\frac{\cos \alpha - \cos \theta}{2}$ B) $\frac{\cot \alpha - \cot \theta}{2}$
C) $\frac{\cot \alpha + \cot \theta}{2}$ D) $\frac{\tan \alpha - \sin \theta}{2}$
E) $\sin \alpha - \cos \theta$

Sekant ve Kosekant Fonksiyonu



$$\sec \alpha = \frac{1}{\cos \alpha}$$

$$\operatorname{cosec} \alpha = \frac{1}{\sin \alpha}$$