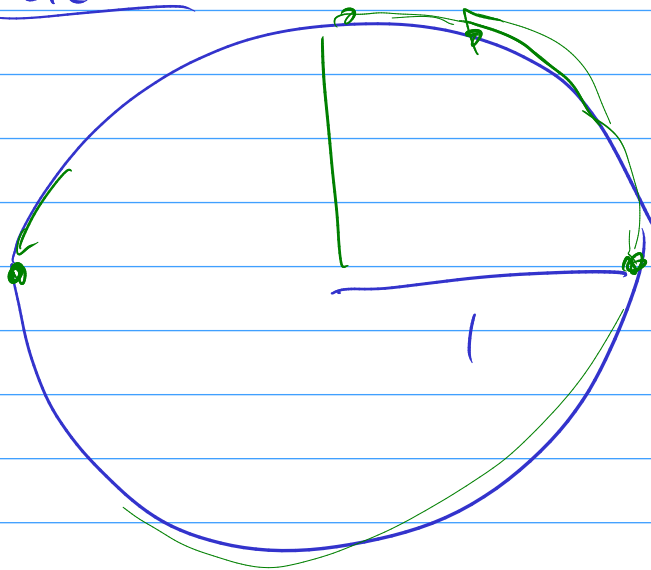


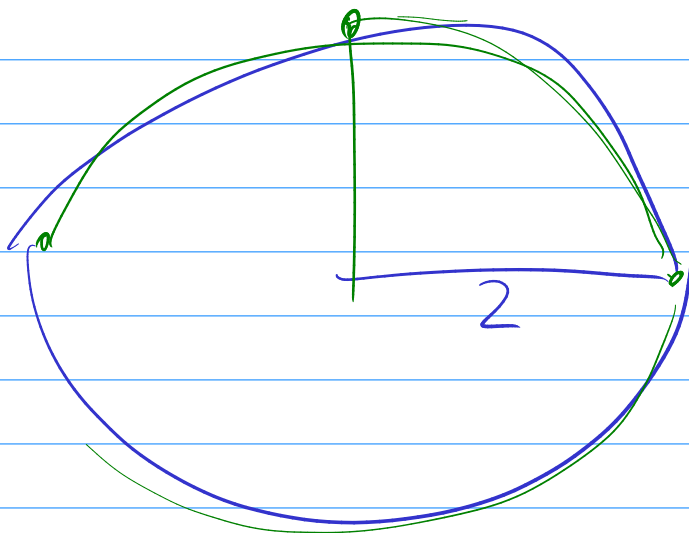
Angles

Radians



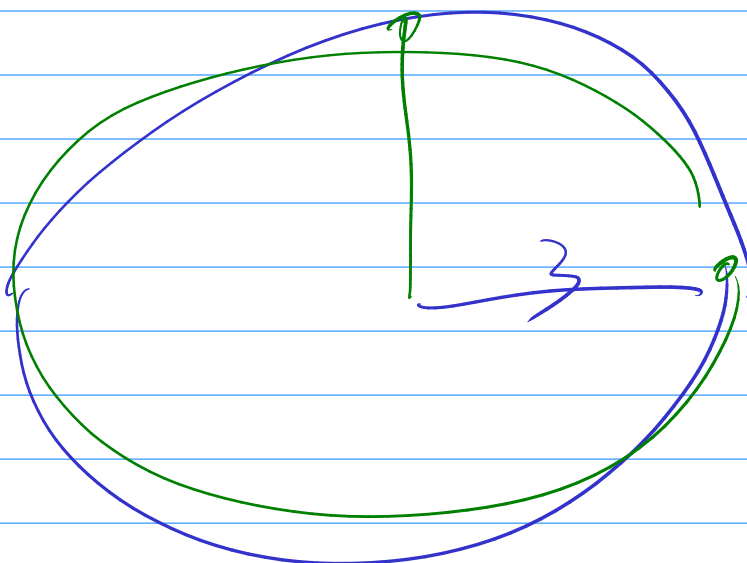
360°
 180°
 90°
 60°

$2\pi \rightarrow 2\pi$
 $\pi \rightarrow \pi$
 $\frac{\pi}{2} \rightarrow \frac{\pi}{2}$
 $\frac{\pi}{3} \rightarrow \frac{\pi}{3}$



360°
 180°
 90°
 60°

$4\pi \rightarrow 2\pi$
 $2\pi \rightarrow \pi$
 $\pi \rightarrow \frac{\pi}{2}$
 $\frac{2\pi}{3} \rightarrow \frac{\pi}{3}$



360°
 90°

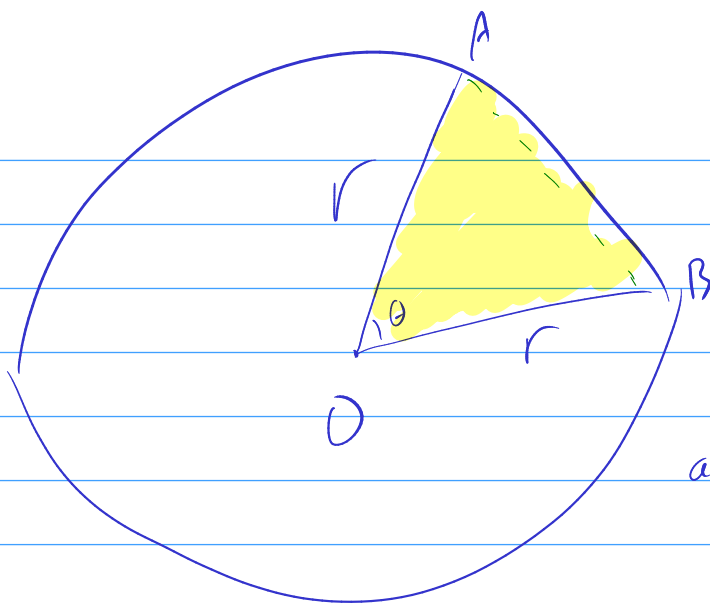
6π

$\frac{3}{2}\pi \rightarrow \frac{\pi}{2}$

degrees \rightarrow radians

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

$$\text{rad} \rightarrow \frac{\text{deg}}{\frac{180^\circ}{\pi}}$$



$$\frac{\text{dist. } \widehat{AB}}{r} = \theta$$

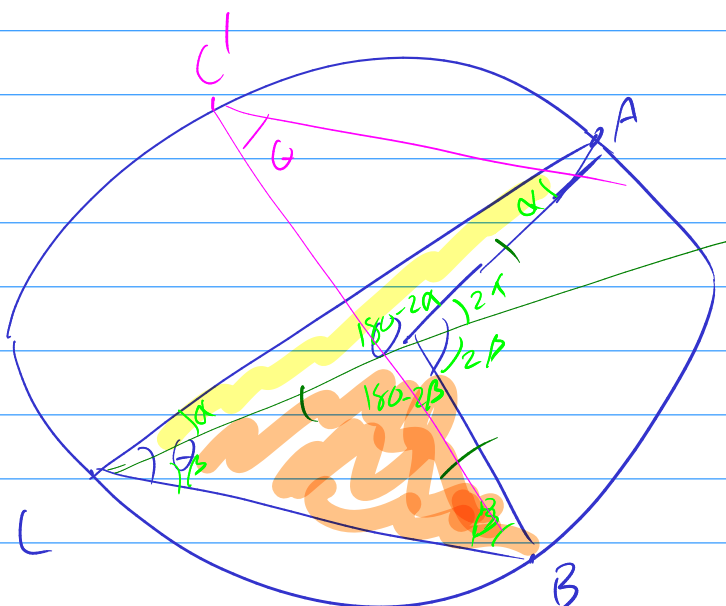
$$\text{dist. } \widehat{AB} = \theta r$$

(θ in radians)

$$\text{area } \widehat{AOB} = \pi r^2 \cdot \frac{\theta}{2\pi} = \frac{r^2 \theta}{2}$$

$$\widehat{AB} = \theta$$

1.

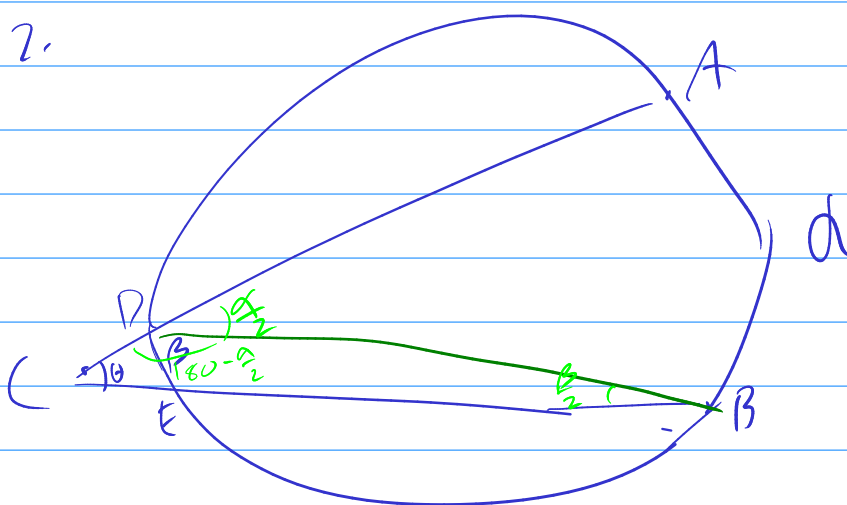


$$\widehat{AB} = 2\alpha + 2\beta$$

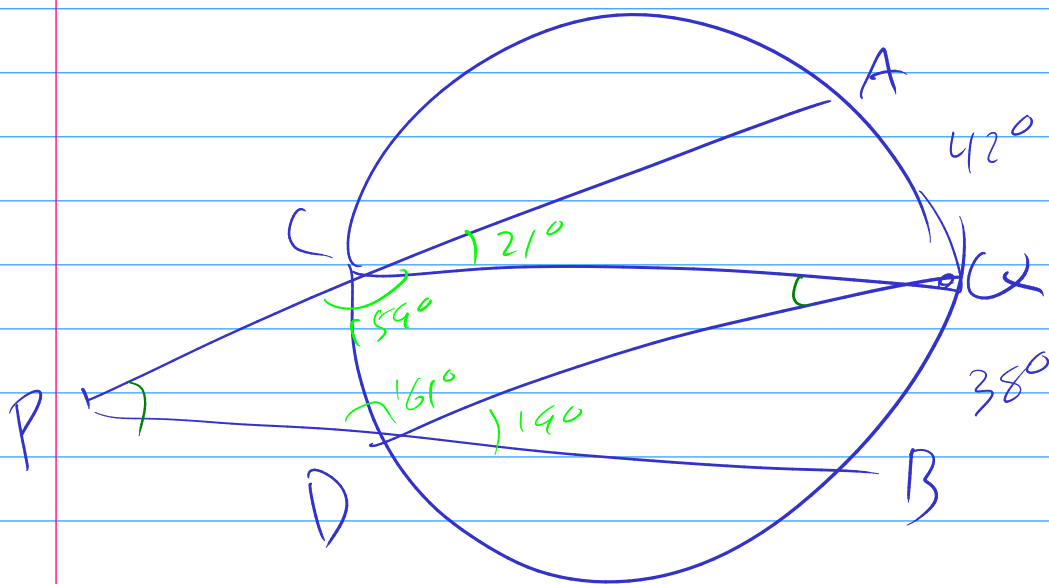
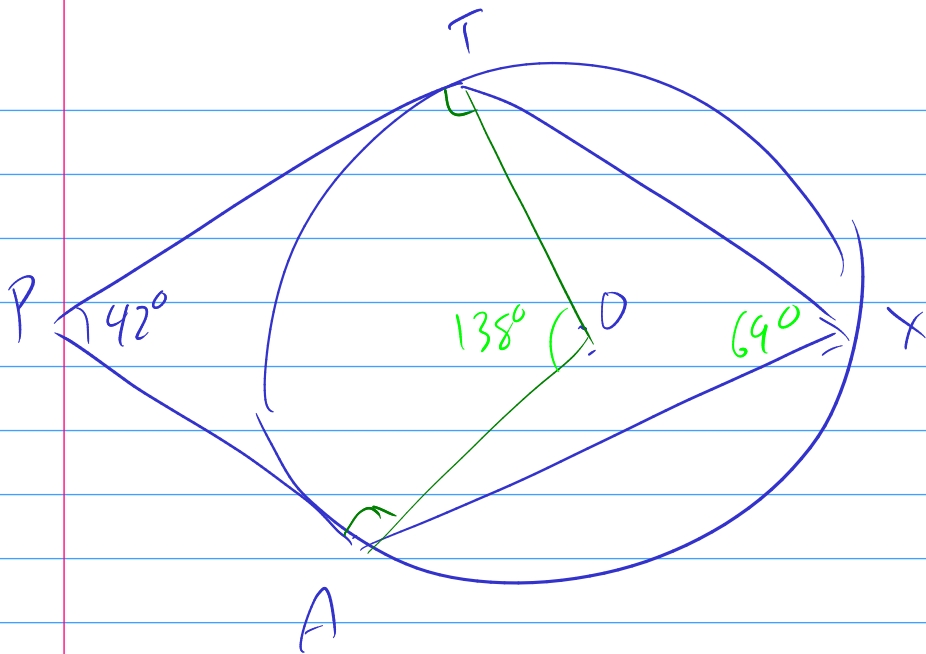
$$= 2\theta$$

$$\theta = \frac{\alpha}{2}$$

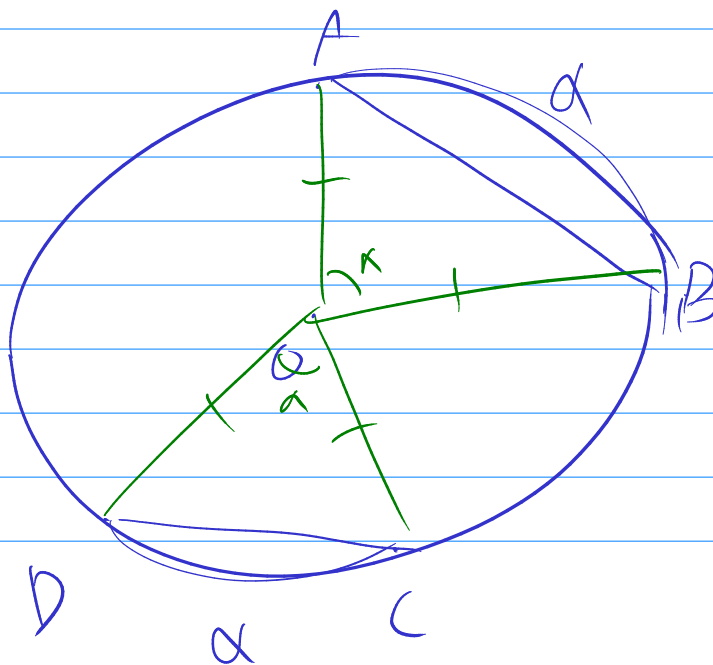
2.



$$\theta = \frac{\alpha}{2} - \frac{\beta}{2}$$



$$360 - 159 - 161 = 40$$



$$\overline{AB} = \overline{CD}$$