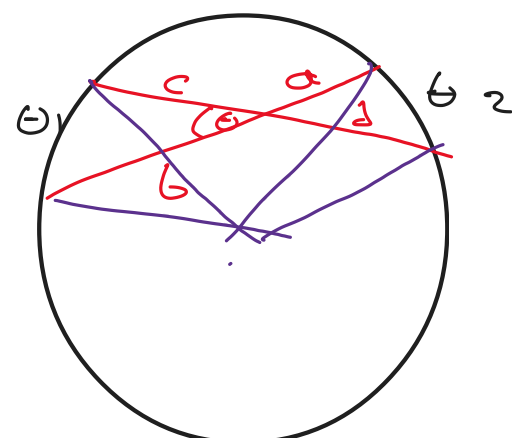
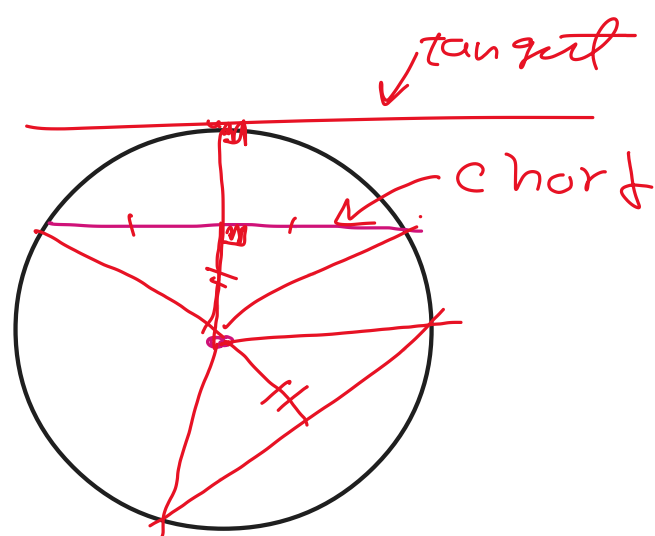
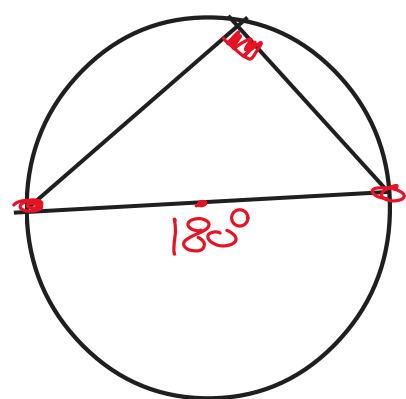
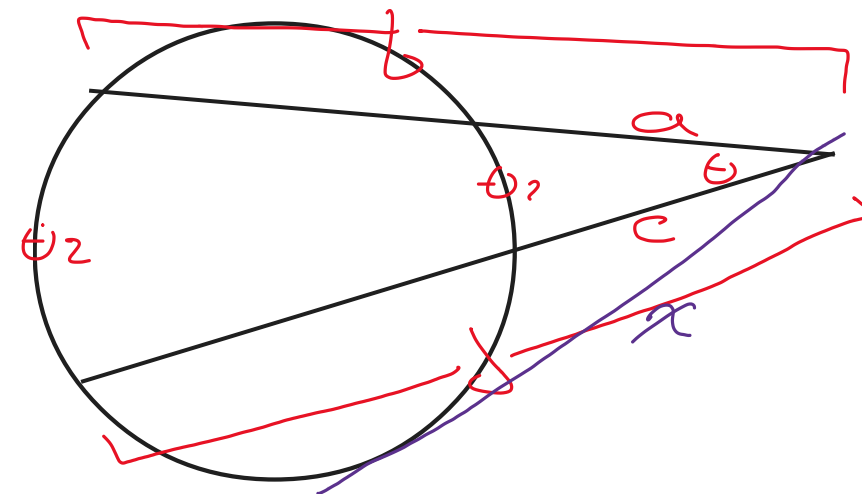


Area = πr^2
 $C = 2\pi r$

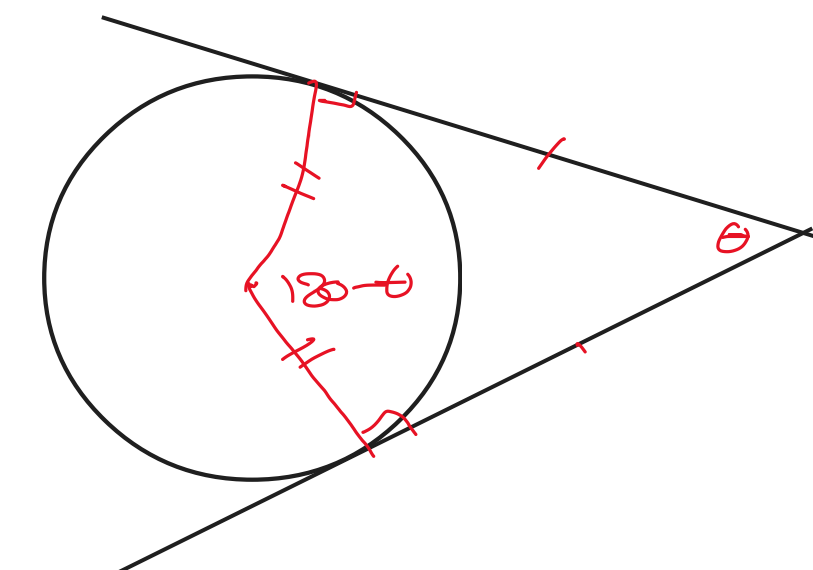
length of Arc $\widehat{AB} = 2\pi r \left(\frac{\theta}{360}\right)$
 Area of sector $AOB = \pi r^2 \left(\frac{\theta}{360}\right)$



$\vec{a} \times \vec{b} = \vec{c} \times \vec{d}$
 $\theta = \frac{\theta_1 + \theta_2}{2}$



$\vec{a} \times \vec{b} = \vec{c} \times \vec{d}$
 $\theta = \frac{\theta_2 - \theta_1}{2}$
 $\vec{a} \times \vec{b} = \vec{r}^2 \theta$



$(x-h)^2 + (y-k)^2 = r^2$
 center (h, k)
 radius = r

$x^2 + 6x + y^2 + 8y = c$
 $h = -\frac{6}{2}$ $k = -\frac{8}{2}$
 $r = \sqrt{c + h^2 + k^2}$

midpoint: $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

slope = $\frac{y_2 - y_1}{x_2 - x_1} = \tan(\theta)$

N.D = $\frac{|ax + by + c|}{\sqrt{a^2 + b^2}}$

