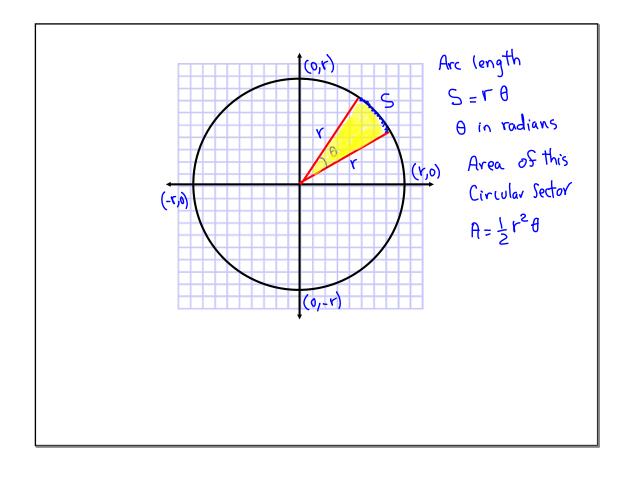
## Circular Sector Arc Length & Area



find the arc length of a Circular Sector with radius 5cm and Central angle 05 45°  $S = r\theta$   $\theta$  in radians  $45^{\circ} = \frac{71}{4}$  Radian

 $S = 5 \cdot \frac{\pi}{4}$   $S = 1.25 \pi$  cm

Sind the area of a circular sector with radius 6 in. and central angle of 5T Radians.

 $A = \frac{1}{2}r^2\theta$   $\theta$  in Radians.

 $A = \frac{1}{2} \cdot 6^{2} \cdot \frac{5\pi}{12}$   $A = \frac{1}{2} \cdot \frac{3}{12} \cdot \frac{5\pi}{12} = \frac{15\pi}{2} \text{ in}^{2}$   $A = \frac{1}{2} \cdot \frac{3}{12} \cdot \frac{5\pi}{12} = \frac{15\pi}{2} \text{ in}^{2}$