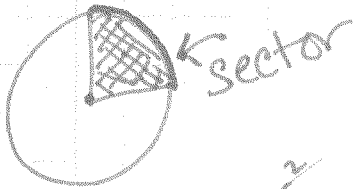


## 4.2 notes Sector Area

Sector  $\rightarrow$  area in a circle bounded by a central angle.



$$\frac{A_{\text{sec}}}{A_{\text{cir}}} = \frac{S}{C_{\text{ir}}}$$

$$\pi r^2 \cdot \frac{A}{\pi r^2} = \frac{r\theta}{2\pi r} \cdot \pi r^2$$

$$A_{\text{sec}} = \frac{r\theta \pi r^2}{2\pi r}$$

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

area of a  
sector  
 $\theta$  in Radians

p 238: 30-31, 43-51