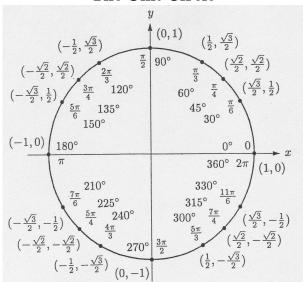
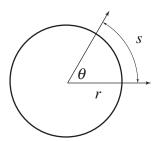
Angles, Triangles, and Trigonometry

The Unit Circle



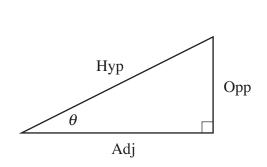
Radian Measure



The radian measure of an angle is defined by the equation $\theta = \frac{s}{r}$.

Note that when θ is measured in radians, arc length is given by the equation $s = r\theta$.

Right Triangle Trig Ratios



$$\cos \theta = \frac{Adj}{Hyp}$$
 $\sec \theta = \frac{Hyp}{Adj}$

$$\sin \theta = \frac{\text{Opp}}{\text{Hyp}} \qquad \qquad \csc \theta = \frac{\text{Hyp}}{\text{Opp}}$$

$$\tan \theta = \frac{\text{Opp}}{\text{Adj}}$$
 $\cot \theta = \frac{\text{Adj}}{\text{Opp}}$

Special Right Triangles

45°-45°-90°

