



$2\pi r = \text{circumference of circle}$

Angle =  $\theta \Rightarrow$

$\theta r = \text{length of the arc} = s$

$\Rightarrow \theta = \frac{s}{r} = \text{radian measure of } \theta$   
"theta"

$$2\pi = \frac{2\pi r}{r}$$

$$1 \text{ radian} = \frac{2\pi \text{ rads}}{1 \text{ circ.}} \approx \frac{6.28 \text{ radians}}{1 \text{ circuit}}$$

1 radian

How's your silly teacher remind himself  
what 1 radian is...

$$\frac{360^\circ}{2\pi} = \frac{180^\circ}{\pi} =$$

1radian  $\approx$  57.29577951308232087679815481410517033240547246656432154916

Heuristic Learning - Problem-based.

$\sin(2x)$ : Divide  $x$ -coords in  
 $\sin(x)$  by 2.

Everything happens twice as fast.  
Everything takes half the time.

