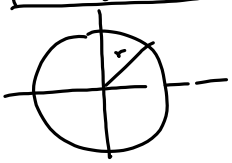
Circle of radius 1
"unit circle"

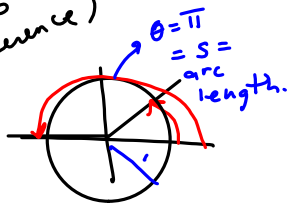
$x^2+y^2=1$

circumference $= 2\pi \cdot 1 = 2\pi$



Circumference $= 2\pi r$

Radians -
A way to measure angles that's tied to arc length (circumference)



360° = 1 revolution.
2π radians = 1 revolution.

In radians, the angle is the arc length on unit circle.

theta $= \theta = s =$ arc length

In general, circle of radius r:

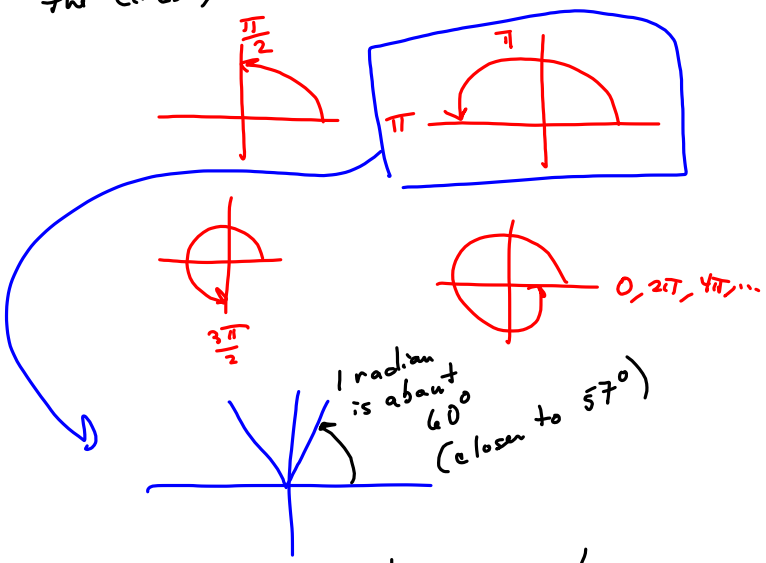
$$s = r\theta$$

Circumference, $r=1$, is 2π
" , $r = ?$, is $2\pi r$

unit circle, arc length is $s = \theta$
circle radius r, " " " $s = r\theta$

$$1 \text{ rad} = \frac{s}{r}$$

when you're all the way around the circle, $\theta = 2\pi = \frac{s}{r} = \frac{2\pi r}{r} = 2\pi$



$2\pi \approx 6.28$ radians to go around the circle.

WebAssign is a cool OPTION.

Free for 2 weeks.

Check it out.

Traditional / Electronic.

↳ Turn in 1st 10 minutes of class.

Text option – WebAssign cheapest

New Books should have an access code for webAssign.

Standard Syllabus Policies
link is missing from current
draft of syllabus.

Common Sense
Common Courtesy