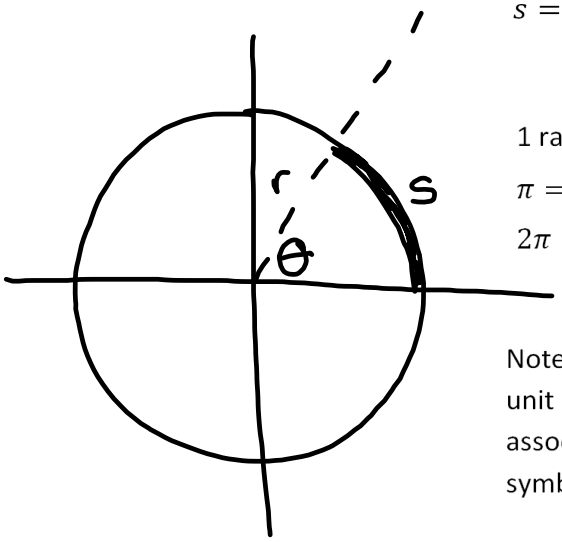
Homework grades this week:

01: Sign up for Khan Academy with coach code 4CG5S2.

02: Read sections 5.1 and 5.2 in your textbook and complete at least 45 minutes of exercises on Khan Academy on related topics (outside of class); in addition, complete "Mastery Challenges" as often as they become available to you.

03: Textbook problems from section 5.1 #1, 2, 7-18 all, 31-74 all. This will mostly be completed in class and will be due this Friday. See syllabus for proper formatting of written homework assignments.

What is a radian?



r = radius length

s = arc length

1 radian $\approx 57.3°$

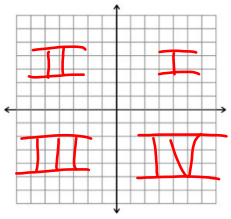
$\pi = 180°$

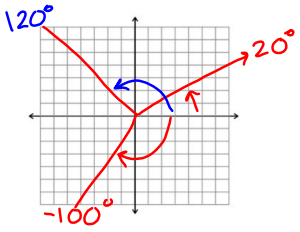
$2\pi = 360°$

When $s = r$, we say that the corresponding angle θ which is subtended by arc s has measure 1 radian.

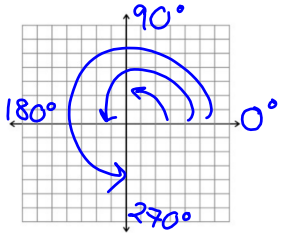
Note that θ is independent of the radius length and any unit of measurement. Therefore radians have no associated units, and any angle measure without a degree symbol is assumed to be in radians.

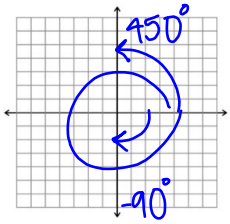
The coordinate plane is divided into four quadrants.





An angle whose terminal side falls on an axis is called a quadrantal angle.





Khan Academy exercises to work on:

- arc measure
- arc length
- radians & degrees
- radians & arc length
- complementary & supplementary angles
- multiple units word problems
- convert units (metrics)
- convert units word problems (metrics)
- convert units (US customary)
- convert units word problems (US customary)