



Vocabulary: Radians



Vocabulary

- Arc – a piece of a circle.
 - For example, BC is an arc of the circle shown to the right.
- Central angle – an angle with a vertex at the center of a circle.
 - For example, $\angle BAC$ is a central angle of the circle shown to the right.
- Circumference – the distance around a circle.
- Radian – a unit of angle measure that expresses how many radii fit along the arc intercepted by the angle.
 - For any circle, exactly 2π radii fit along the circumference of the circle, so 1 full rotation (360°) = 2π radians.
 - Because 2π radians = 360° , it follows that $1 \text{ radian} = \frac{360^\circ}{2\pi}$, or about 57.3° .
 - An angle of 1 radian intercepts an arc that is exactly the same length as 1 radius.
- Radius – a line segment with one endpoint at the center of a circle and the other endpoint on the circle.

