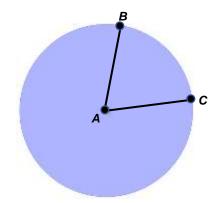


Vocabulary: Radians



Vocabulary

- Arc a piece of a circle.
 - For example, BC is an arc of the circle shown to the right.
- <u>Central angle</u> an angle with a vertex at the center of a circle.
 - o For example, $\angle BAC$ is a central angle of the circle shown to the right.



- <u>Circumference</u> the distance around a circle.
- Radian a unit of angle measure that expresses how many radii fit along the arc intercepted by the angle.
 - ο For any circle, exactly 2π radii fit along the circumference of the circle, so 1 full rotation (360°) = 2π radians.
 - ο Because 2π radians = 360°, it follows that 1 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.