

# Intro to Circles

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## **Circle**

A set of all points in a plane that are equidistant from a given point.

## **Radius**

The distance from the center point of a circle to any other point on the circle

## **Chord**

A line segment that passes through the center of the circle

## **Diameter**

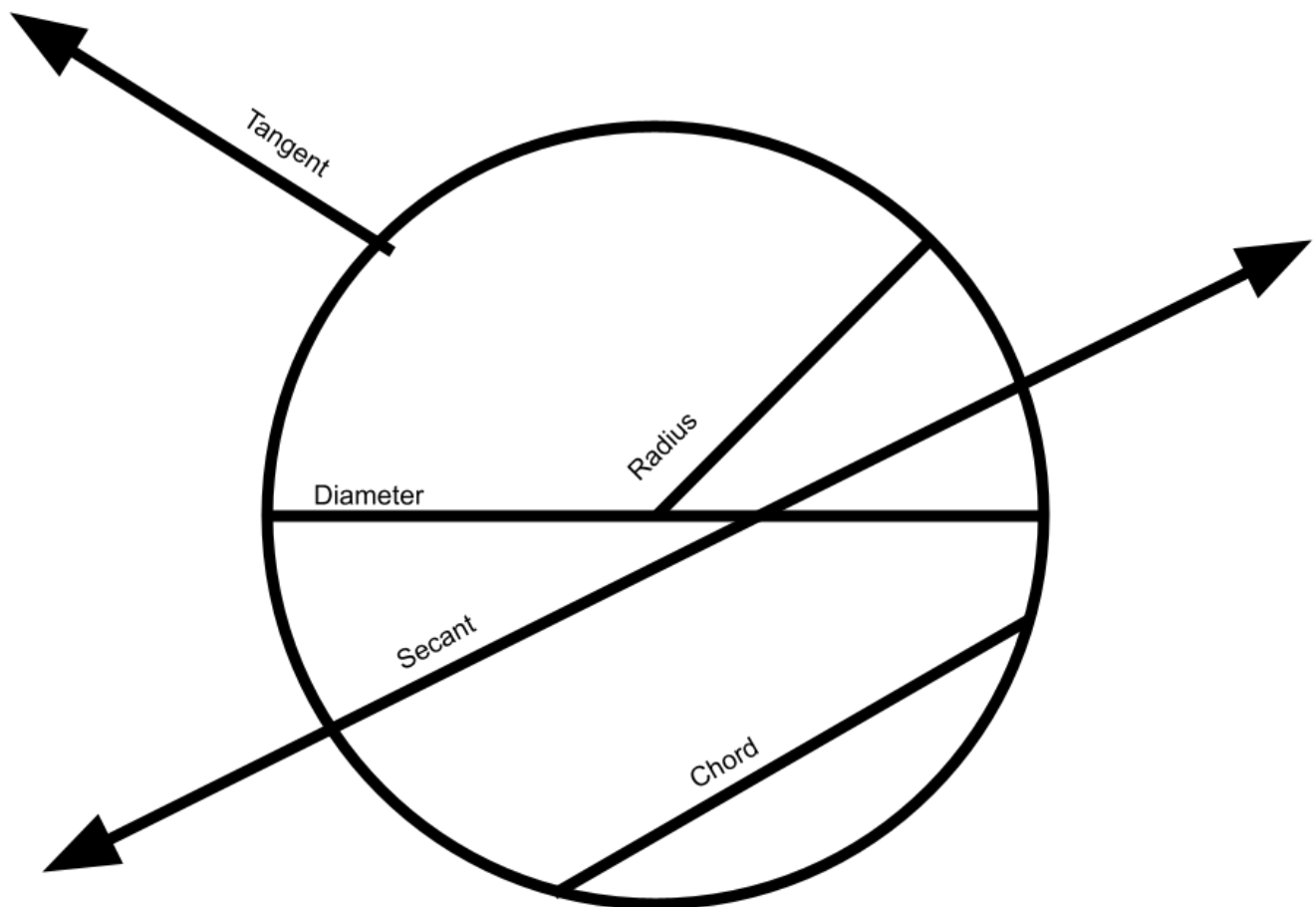
A chord that passes through the center of the circle

## **Secant**

A line that intersects two points on a circle

## **Tangent**

A line that intersects a circle at exactly one point



## Arcs

An unbroken part of the Circumference

- A major arc is more than 180 (named by only 2 letters)
- A minor arc is less than 180 (named by more than 2 letters)
- A semi-circle is 180

## Central Angles

The vertex of the angle is in the center of the circle. The measure of the central angle is the measure of the arc.

We define the intercepted arc as the measure of the central angle formed by drawing the radii from the endpoints of the arc.