

## Lesson 1.7: Circles

In this lesson you will:

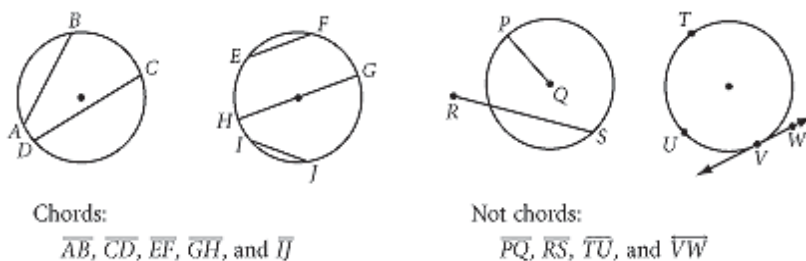
- learn the definition of circle
- write definitions for chord, diameter, and tangent
- learn about 3 types of arcs and how they are measured

\*Add “circle” to your dictionary.

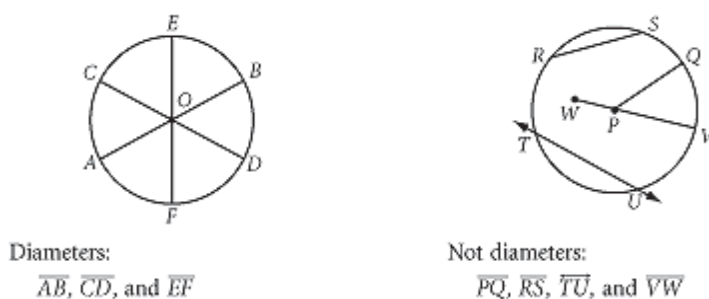
### Investigation 1.7: “Defining Circle Terms”

A.) Write a good definition of each boldfaced term. Discuss your definitions with others in your group. Agree on a common set of definitions for your class and add them to your dictionary.

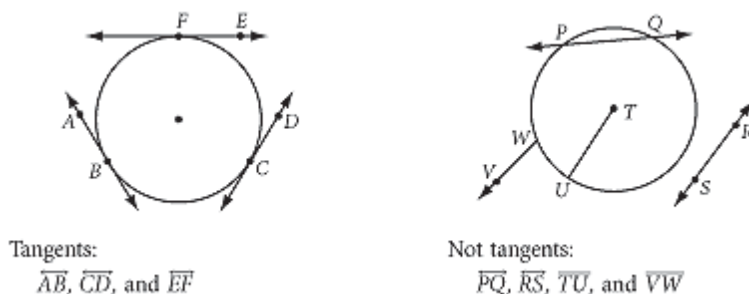
#### **Chord**



#### **Diameter**



#### **Tangent**

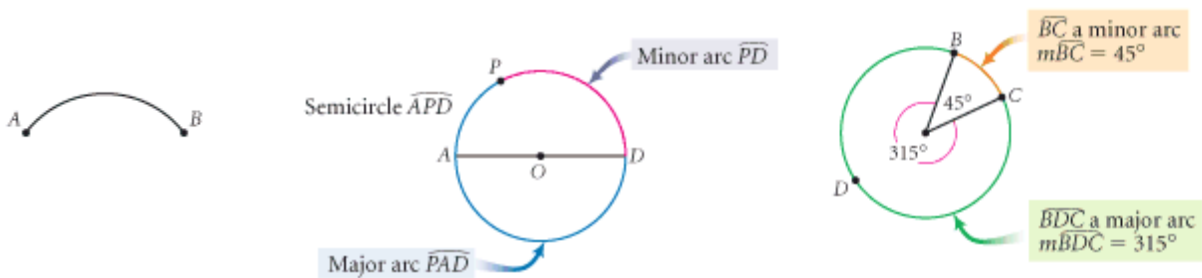


Note: You can say  $\overleftrightarrow{AB}$  is a tangent, or you can say  $\overleftrightarrow{AB}$  is tangent to circle O. The point where the tangent touches the circle is called the **point of tangency**.

B.) Can a chord of a circle also be a diameter of the circle? Can it be a tangent? Explain why or why not?

C.) Can two circles be tangent to the same line at the same point? Draw a sketch and explain.

\*Add "concentric circles," "arc," "semicircle," "major arc," "minor arc," and "central angle" to your dictionary.



**$\Rightarrow$ ASSIGNMENT:** \_\_\_\_\_