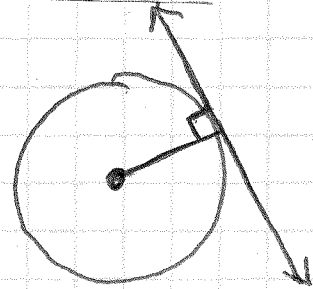


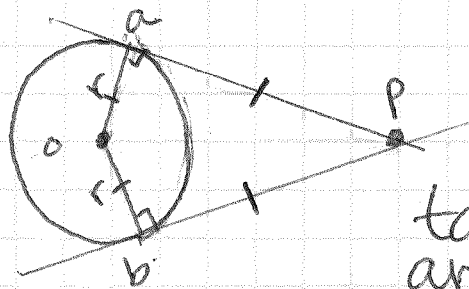
6.1 Tangent Lines and Properties

A tangent is a line that intersects a circle exactly one time.

The tangent line is perpendicular to the radius.



Tangent Segments - two line segments, tangent to a circle that intersect at a point



$$\overline{ap} \cong \overline{bp}$$

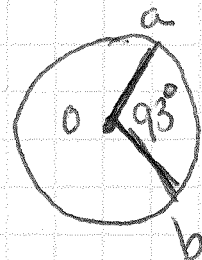
tangent segments are congruent.

Central angle - has a vertex at the center of the circle. $\angle aob$ is a central angle.

The measure of an arc is the measure of the central angle.

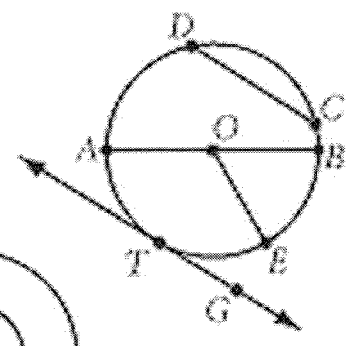
$$m \widehat{ab} = m \angle aob$$

$93^\circ \qquad 93^\circ$

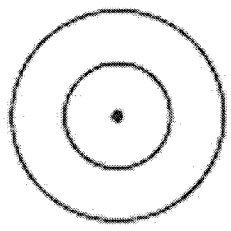


1. Congruent circles
2. Concentric circles
3. Radius
4. Chord
5. Diameter
6. Tangent
7. Central angle
8. Minor arc
9. Major arc
10. Semicircle

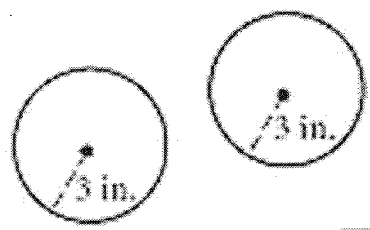
- A. \overline{DC}
- B. \overrightarrow{TG}
- C. \overline{OE}
- D. \overline{AB}



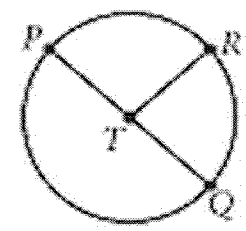
E.



F.



- G. \overline{RQ}
- H. \overline{PRQ}
- I. \overline{PQR}
- J. $\angle PTR$



Tangent 90° to Radius