## Geometry Notes 10.1 Use Properties of Tangents

Circle: the set of all points in a plane that are equidistant from a given point called	
the A circle is named by its cente	r.
<b>Radius</b> : a segment that has one endpoint at the center of the circle and the other endpoint on the circle.	
<b>Chord</b> : a segment whose endpoints are on a circle.	BN
Diameter: a chord that contains the center of the circle. (twice the length of the radius)	P
Secant: a line that intersects a circle in two points.	
Tangent: a line, ray, or segment in the plane of the circle that intersects the circle in exactly one point, the point of tangency. C D	
Common Tangents: a line, ray, or segment that is tangent to two coplanar circle	
common tangents	
In a plane, a line is tangent to a circle if and only if the line is <b>perpendicular</b> to the radius of the circle at its endpoint on the circle.	a m
Tangent segments <b>from a common point outside of the circle</b> are congruent.	$P^{\bullet}$

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