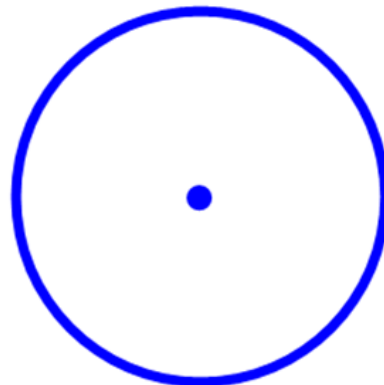


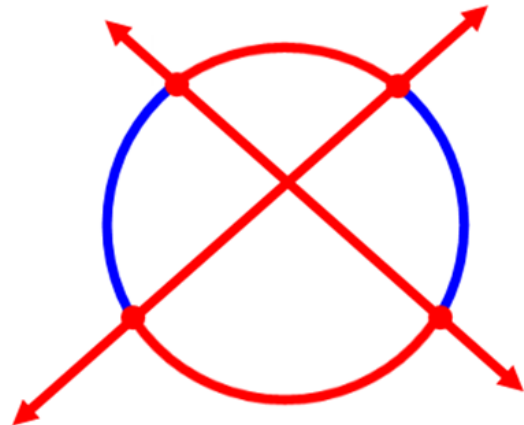
Def. Secant

A figure (line, segment, or ray) that contains a chord of a circle.



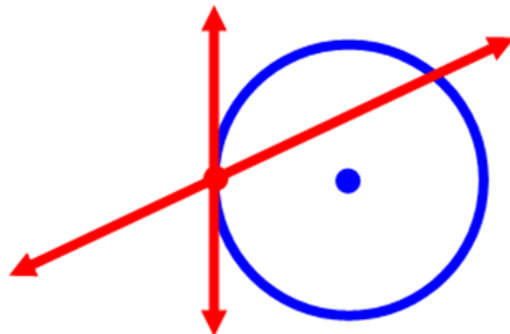
Th. 10-12

If 2 secants intersect in the interior of a circle, then the measure the \angle formed is one-half the sum of the measures of the arcs intercepted by the \angle and its vertical \angle .



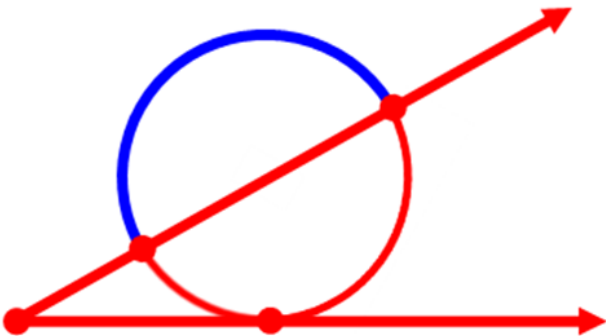
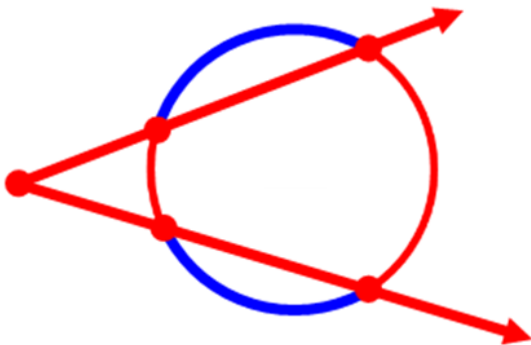
Th. 10-13

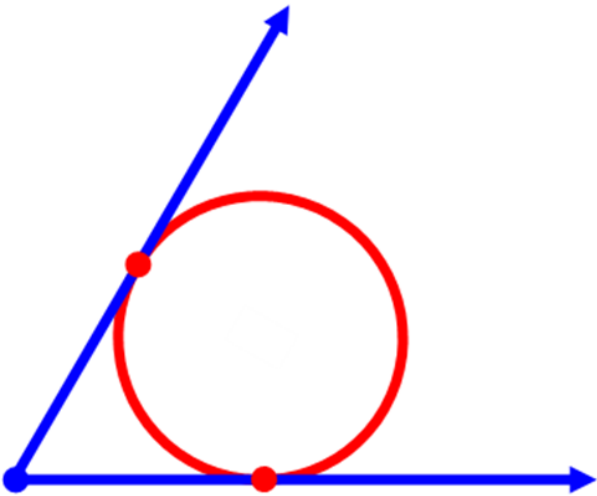
If a secant and a tangent intersect at the pt. of tangency, then the measure of each \angle formed is one-half the measure of its intercepted arc.



Th. 10-14

If 2 secants, a secant and a tangent, or 2 tangents intersect in the exterior of a circle, then the measure of the \angle formed is one-half the positive difference of the measures of the intercepted arcs.





The **KEY** is: **WHERE** is the **VERTEX**?

The CENTER: Arc and \angle are the same

ON the Circle: The arc is double, the \angle is half

IN the Circle: The 2 arcs **ADD** to be double the \angle

OUTSIDE the Circle:

The 2 arcs **SUBTRACT** to be double the \angle