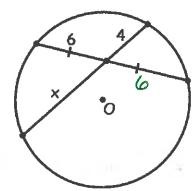
Name:______
Date:___

Chords, Tangents & Secants - Segment Lengths

Theorem: If 2 chords intersect inside a circle, then the products of their parts are =.

Example:



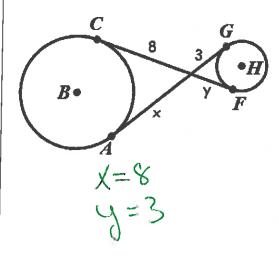
$$4(x) = 6(6)$$

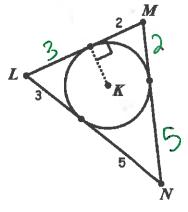
 $4x = 36$
 $x = 9$

Theorem: If 2 tangents intersect outside a circle, then they are congruent.

This is often called the ICE Cream Core Theorem.

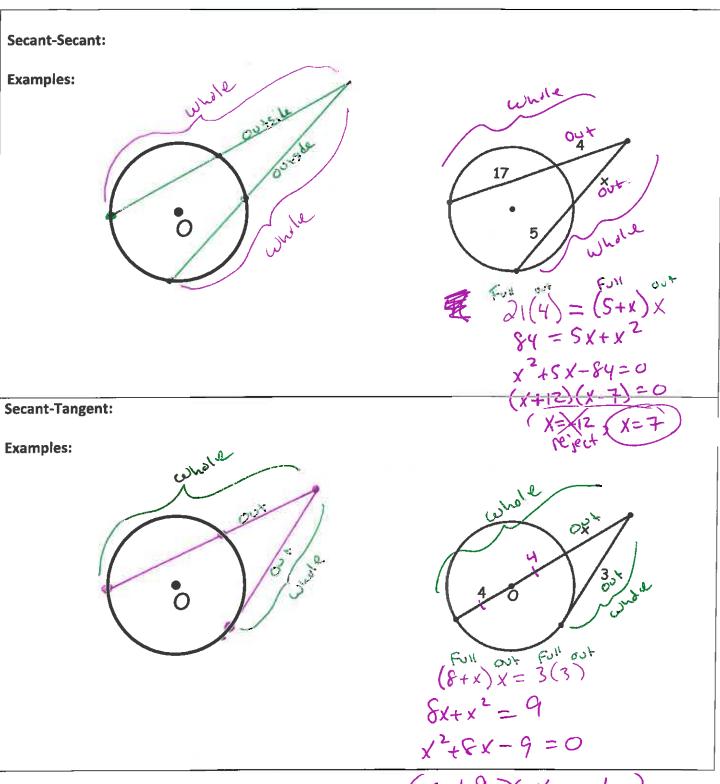
Examples:





Perineler=10+4+6 = 20 Theorem: If two secants or one secant and one tangent intersect outside a circle then:

(Whole Segment)(Outside part) = (Whole Segment)(Outside part)



(x+9)(x-1) x=1 x=1x=1