10-6 Secants, Tangents, & Angle Measures

DTAGDAM	200000000000000000000000000000000000000	a suggestion
DIAGRAM:	TERMINOLOGY AND THEOREMS:	EXAMPLES:
A W	Secant: a line that intersects a circle in exactly	
1 2	points. The measures of angles formed by secants and tangents are related to <u>INTO/Cepted</u> arcs.	
C	If 2 secants intersect in the interior of a circle, then the	$m \angle 1 = \frac{1}{2} (m \widehat{AC} + m \widehat{BD})$
	measure of an angle formed is the the of the measure of the arcs intercepted by the	$m \angle 2 = \frac{1}{2} (m \widehat{AD} + \widehat{BC})$
	angle and its vertical angle.	
g B	If a Vecant and a tangent intersect at	$m \angle 1 = \frac{1}{2} (m \widehat{AB})$
2 1	the point of tangency, then the measure of each angle is the measure of its intercepted arc.	$m\angle 2 = \frac{1}{2}(m\widehat{ACB})$ or
A	****It "acts like" an inscribed angle.	m∠2 = 180° - m∠1
D	If 2 <u>Secants</u> intersect in the <u>extens</u> of	$m \angle A = \frac{1}{2} (m \int E_m BC)$
A C	a circle, then the measure of the angle formed is <u>One</u> the <u>difference</u> of the measure	- Applean Validition in a part of the second
	of the intercepted arcs.	
*C	If a <u>secant</u> and a targent intersect in the <u>exterior</u> of a circle, then the	$m \angle A = \frac{1}{2} (m \bigcirc B)$
BA	measure of the angle formed is ONL - Nath the	
D	intercepted arcs.	
D	-tun to	
C	of a circle, then the measure of the angle formed is	$m\angle A = \frac{1}{2}(mBOCmBC)$
B	one-half the afferce of the	も(360-x-x) も(360-2x)
1	measure of the intercepted arcs.	\$(180-X)]
Name of the second	*Can also be found by subtracting the small arc from 180°	
SUMMARY	1. Central Angle (vertex at of the circle) =	
OF	2. Inscribed Angle (vertex the circle) =	
FORMULAS:	3. "Inside Angle" (vertex Inside the circle) = 2	(O+O)
	4. "Outside Angle" (vertex OWSIDE the circle) = 2	

Given: \odot X with diameter \overline{AD} and tangents \overline{BH} and \overline{AG} .

m/6 = ____

Find the measures of all 18 angles.

