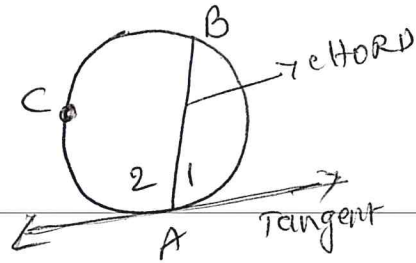


Mr.Reddy's Notes: 10.5 Angle relationships in Circles. JMA
Geometry

①

$$ML1 = \frac{1}{2} m \widehat{AB}$$

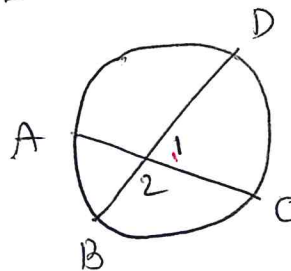
$$ML2 = \frac{1}{2} m \widehat{BCA}$$



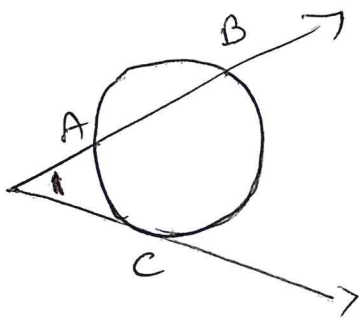
② ANGLES INSIDE THE CIRCLE:-

$$ML1 = \frac{1}{2} (m \widehat{DC} + m \widehat{AB})$$

$$ML2 = \frac{1}{2} (m \widehat{AD} + m \widehat{BC})$$

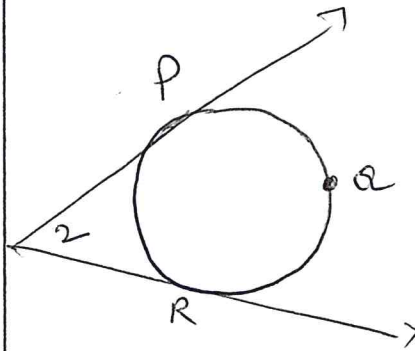


③ ANGLES OUTSIDE THE CIRCLE:-



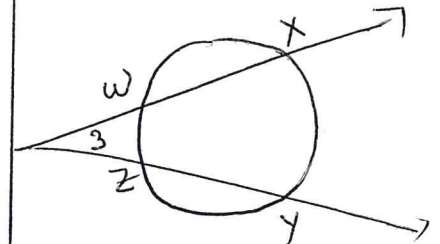
$$ML1 = \frac{1}{2} (m \widehat{BC} - m \widehat{AC})$$

[Secant and chord]



$$ML2 = \frac{1}{2} (m \widehat{PQR} - m \widehat{PR})$$

2 Tangents



$$ML3 = \frac{1}{2} (m \widehat{XZ} - m \widehat{WY})$$

2 Secants

NOTE: ANGLE INSIDE: HALF OF SUM OF ANGLES OF ARCS
ANGLE OUTSIDE: HALF OF DIFFERENCE OF ANGLES OF ARCS

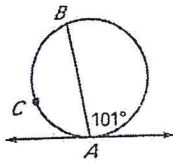
Name _____

Date _____

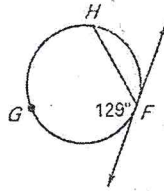
LESSON 10.5 Practice
For use with pages 680-686

Find the indicated arc measure.

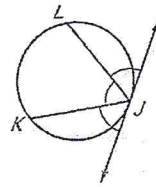
1. $m\widehat{AB}$



2. $m\widehat{FH}$

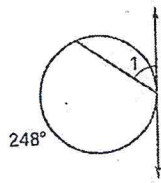


3. $m\widehat{JKL}$

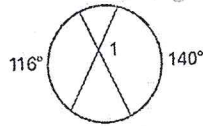


Find $m\angle 1$.

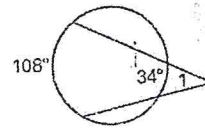
4.



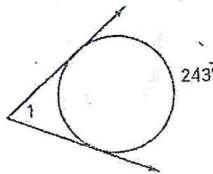
5.



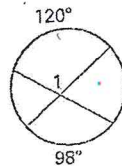
6.



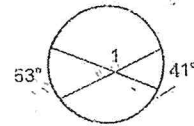
7.



8.

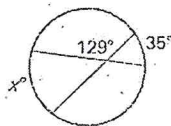


9.

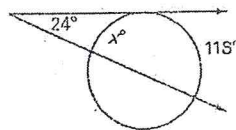


In Exercises 13-18, find the value of x .

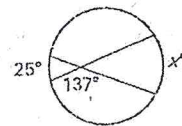
13.



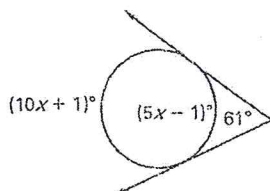
14.



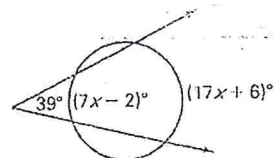
15.



16.



17.



18.

