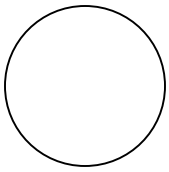
Geometry/Trig 2 Name: _____

Section 9.4: Arcs and Cords Notes Date: _____

Arcs can be formed by figures other than central angles. Arcs can be formed by chords, inscribed angles, and tangents. Today we will focus on examining relationships between chords and their intercepted arcs.

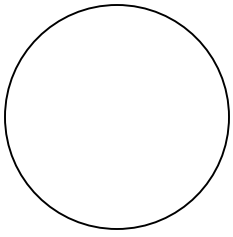


Chord AB creates intercepted _____ arc ____

and intercepted _____ arc _____.

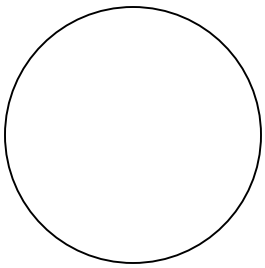
Theorem 9-4: _____

_____



If _____, then _____.

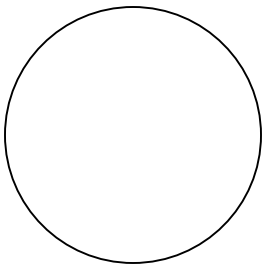
Examples



mAB = _____ mBD = _____

mACD = _____

mBAD = _____



mAC = _____ mAB = _____

mACB = _____

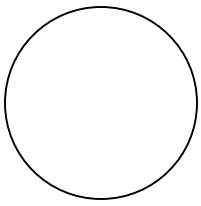
mABC = _____

mBAC = _____

Theorem 9-5: _____

_____

_____.



$\overline{AB}$ is a diameter and $\overline{CD}$ is a chord.

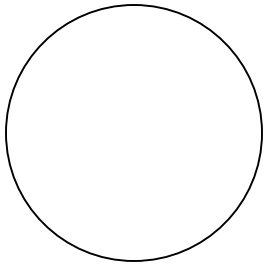
If _____

then _____.

Geometry/Trig 2 Name: _____

Section 9.4: Arcs and Cords Notes Date: _____

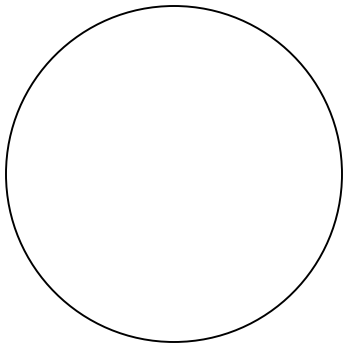
Example



Theorem 9-6: _____

1. _____

2. _____



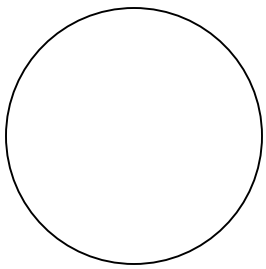
1) If _____

then _____.

2) If _____

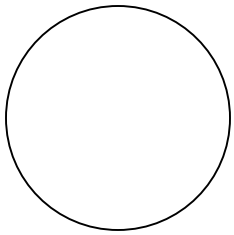
then _____.

Example:

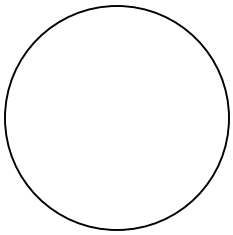


Geometry/Trig 2 Name: _____

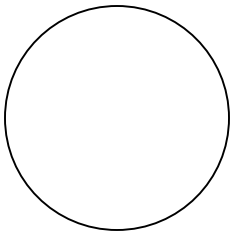
Section 9.4: Practice Problems Page 347 #1-9 Date: _____

1. 

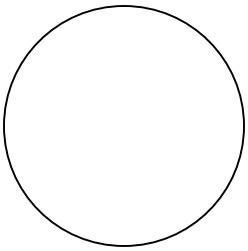
XY = _____

2. 

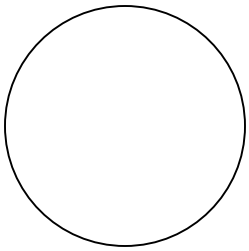
OM = _____

3. 

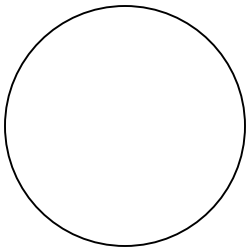
OR = _____

4. 

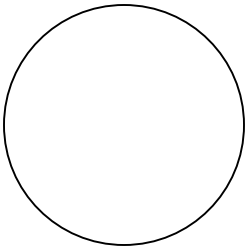
$m\angle 1$ = _____

5. 

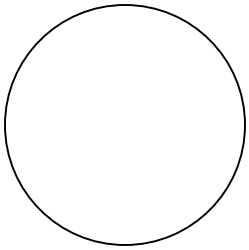
$m\overset{\frown}{BC}$ = _____

6. 

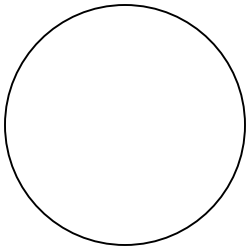
$m\overset{\frown}{CD}$ = _____

7. 

OA = _____

8. 

EF = _____

9. 

CD = _____