

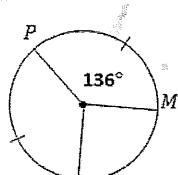
## 6.1 Properties of Tangents to Circles and      6.2 Arc Measures

### VOCABULARY and definitions

Chord	
Diameter	
Secant	
Tangent	
Central angle	
Semicircle	
Arc	
Minor arc	
Major arc	
Measure of a minor arc	
Measure of a major arc.	
Congruent circles	
Congruent arcs	

Examples: Refer to the diagrams below-

Calculate  $m\widehat{MN}$ .



## 6.1 Properties of Tangents to Circles

## 6.2 Arc Measures

### VOCABULARY and definitions

Chord

a segment whose endpoints are on circle



Diameter

a chord that contains center of circle



Secant

a line that intersects circle in 2 points



Tangent

a line intersecting circle at only 1 point



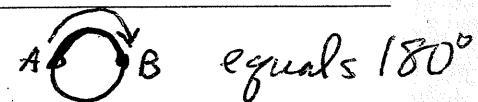
Central angle (of circle)

angle whose vertex is the center of circle



Semicircle

arc with endpts that are endpts of diameter

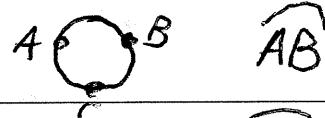


Arc

an unbroken part of a circle

Minor arc

an arc less than  $180^\circ$



Major arc

an arc more than  $180^\circ$



Measure of a minor arc

$< 180^\circ$

Measure of a major arc

$> 180^\circ$

Congruent circles

two circles with same radius

Congruent arcs

2 arcs of same measures in congruent circles

Examples: Refer to the diagrams below-

Calculate  $m\hat{MN}$ .

