

Name: _____

Hour: _____

Unit N: Circles

Geometry 2nd Semester

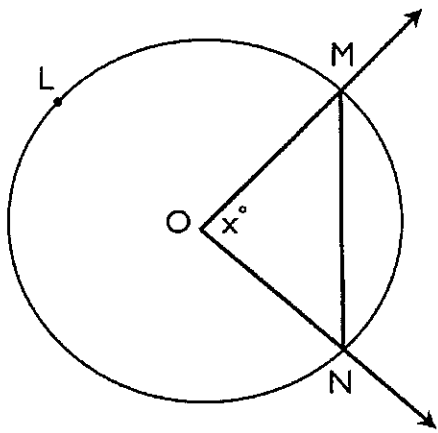


Lesson 14-1: Chord Length and Arc Measure

Vocabulary

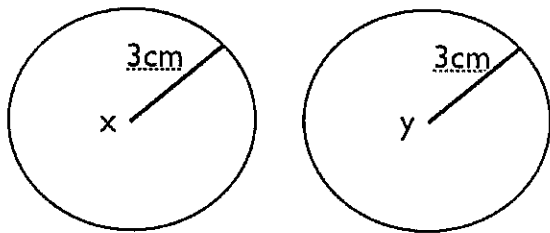
Minor Arc: _____

Major Arc: _____



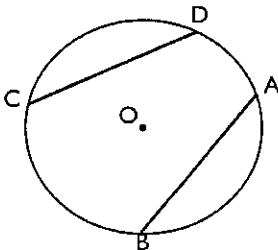
Parts:

Congruent Circles: _____



Arc-Chord Congruence Theorem: _____

1. _____
2. _____



Inscribed: _____

Examples

Circumscribed: _____

Examples

Practice

1. Find the length of a chord of a 103° arc in a circle with radius 20cm.

2. A circle has a radius of $10''$. Find the length of a chord of a...
 - a. 60° arc

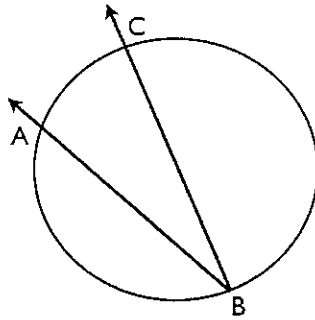
 - b. 90° arc

 - c. 120° arc

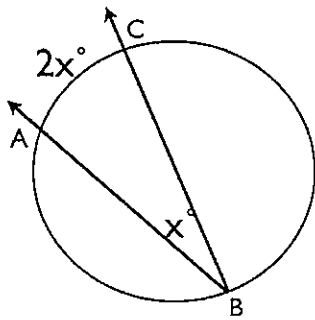
Lesson 14-2: The Inscribed Angle Theorem

Vocabulary

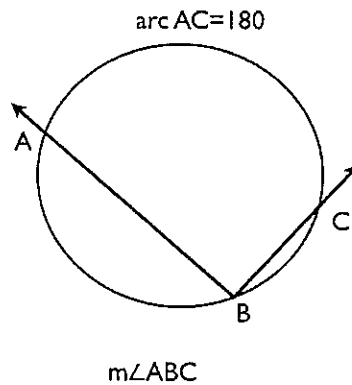
Inscribed Angle: _____



Inscribed Angle Theorem: _____

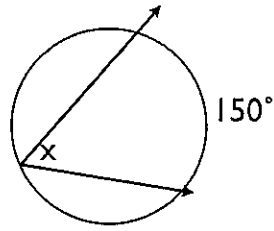


Theorem: _____

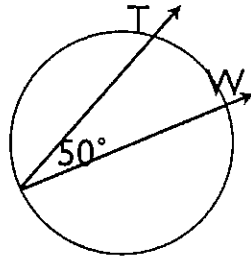


Practice

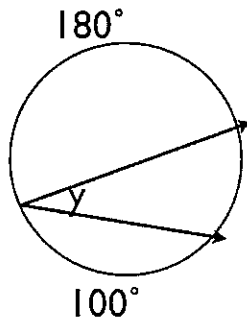
1. Find the $m\angle X$.



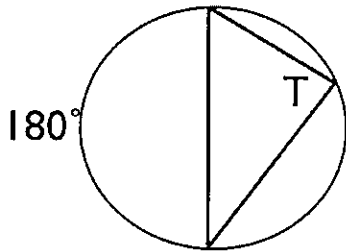
2. Find the measure of arc TW.



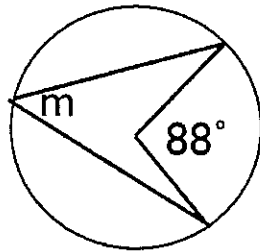
3. Find $m\angle Y$.



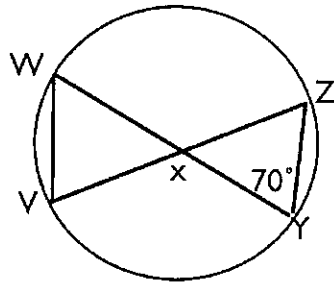
4. Find $m\angle T$.



5. Find the $m\angle m$.



6. Find the measure of arc VY .

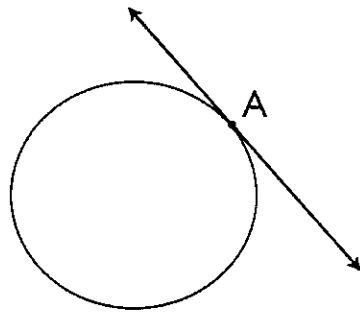


7. Draw a circle with center Z that has inscribed angle $\angle TUV$, and arc TV is 80° . Label everything appropriately.

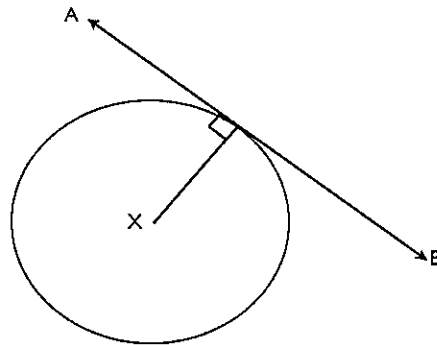
Lesson 14-5: Tangents to Circles & Spheres

Vocabulary

Tangent: _____



Radius-Tangent Theorem: _____



Practice

1. How far is it to the horizon from a point P that is 200 feet above ground?

