



Chapters 9 & 10:

# CIRCLES

CORNELL NOTES/SUMMARY SHEET

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## SEGMENTS OF A CIRCLE LESSONS 9.1, 9.3, 9.6

### ***BIG IDEAS***

#### LESSON 9.1

- Radius-Chord Relationships & Theorems
- The Equidistant Chord Theorem

#### LESSON 9.3

- Tangent lines
- Tangent to a Circle Theorem
- Two-Tangent Theorem
- Circumscribed polygons
- Common tangents

#### LESSON 9.6

- Chord-Chord Power Theorem
- Tangent-Secant Power Theorem
- Secant-Secant Power Theorem

### ***YOUR NOTES***

## OTHER CIRCULAR MEASUREMENTS LESSONS 9.7, 9.8, 9.9

### ***BIG IDEAS***

#### LESSON 9.7

- Circumference of a circle
- Arc measure vs. arc length

#### LESSON 9.8

- Degree measure vs. radian measure
- Arc length
- Converting between degrees & radians

#### LESSON 9.9

- Area of a sector; segment; annulus

### ***YOUR NOTES***

## ANGLES OF A CIRCLE LESSONS 9.2, 9.4, 9.5

<b><i>BIG IDEAS</i></b>	<b><i>YOUR NOTES</i></b>
<p><b>LESSON 9.2</b></p> <ul style="list-style-type: none"><li>• Measures of minor/major arcs &amp; semicircles</li><li>• Relationship between congruent arcs, chords, &amp; central angles</li></ul> <p><b>LESSON 9.4</b></p> <ul style="list-style-type: none"><li>• Inscribed Angle Theorem</li><li>• Inscribed Right Triangle Theorem</li><li>• Inscribed Quadrilateral Theorem</li></ul> <p><b>LESSON 9.5</b></p> <p>Angle/arc measures of...</p> <ul style="list-style-type: none"><li>• Tangent-chord angle</li><li>• Chord-chord angle</li><li>• Secant-secant angle</li><li>• Secant-tangent angle</li><li>• Tangent-tangent angle</li></ul>	

## EQUATIONS OF CIRCLES LESSONS 10.1, 10.2, 10.3

<b><i>BIG IDEAS</i></b>	<b><i>YOUR NOTES</i></b>
<ul style="list-style-type: none"><li>• Standard form equation of a circle</li><li>• Circles and tangents</li><li>• Completing the square</li></ul>	