Name:	Date:	
Circles: Review		
1. Combining chords into a polygon creates a		
2. A circumscribed is created	d by linking tangents.	
3. A line connecting an outside point to the edge of a circle is a		
4. A central angle is made up of 2 (a) tangents, (b) vertices, (c) radii, (d) chords.		
5. Complete the proof: Given: Segment AB intersects circle X at point C. Prove: m∠XCA = m∠XCB		
1. Segment AB intersects circle X at point C	1. Given	
2. XC is the radius of circle X	2. Def of a radius	
3. \angle XCA is a right angle	3	
4. m∠XCA = 90º	4. Def of right angle	
5. m∠XCA = 180°	5. Def of Supp $\angle s$	
6. m $\angle AB - m \angle XCA = 90^{\circ}$	6. Angle Subtraction	
7. m \angle XCB = 90°	7. Simplify	
8. m∠XCB = m∠XCB	8. Substitution	

6. Provide a brief description of the Inscribed Quadrilateral Theorem.

7-10. Identify the arc length and sector area of the following circles. Then, find the area in radians.

8. r = 3
m = 90
10. r = 19
m = 120

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Name:	Date:
	Answer Key
	Circles: Review
1., circumscribed circle	
2. polygon	
3. tangent	
4. c	
5. Tangent-Radius theorem	
6. If a quadrilateral is inscribed in a circle, then its opposite angles are	
supplementary	
7. L = 5.23; A = 26.17; ^π / ₆	
8. L = 4.71; A = 7.07; π	
9. L = 9.11; A = 132.04; ^π / ₁₀	

10. L = 39.77; A = 377.85;^{2 π}/₃