# **NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PER.\_\_\_\_\_\_**

## **Chapter 10 Review**

**5 points added to your test, if complete.**

### CIRCLE BASICS

**Write a brief but thorough definition for each of the following geometric terms.**

|  |  |
| --- | --- |
| 1. chord
 |  |
| 1. tangent
 |  |
| 1. point of tangency
 |  |
| 1. secant
 |  |
| 1. radius
 |  |
| 1. diameter
 |  |

**Use below to name each of the following.**

**M**

**L**

**Q**

**N**

**P**

**O**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | The center. |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | All radii. |
| 9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | A diameter. |
| 10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | A secant. |
| 11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | A tangent. |
| 12. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | A point of tangency. |
| 13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | A point in the interior. |
| 14. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | A point in the exterior. |

TANGENTS

**Find the indicated values.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_
 | **C****R****S****T**Find the value of ‘’: |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_
 | Find the value of ‘’: |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_
 | Find the value of ‘’: |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_
 | Find the perimeter of the quadrilateral: |

**CENTRAL ANGLES, ARCS, & SECTORS**

**Find the indicated values.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | Given that is a diameter of , find the value of ‘’ and the .ABCD |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | Find the value of ‘’. |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | Find the length of .RSTU |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_
 | Given that the , find the .LMNO  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | LMNOPFind . |

**Find the indicated values.**

|  |  |
| --- | --- |
| 25. \_\_\_\_\_\_\_\_\_\_\_\_ | **E****X****A****M**In ,  |
| 26. \_\_\_\_\_\_\_\_\_\_\_\_ | In , **S****T****U****D****Y** |
| 27. \_\_\_\_\_\_\_\_\_\_\_\_ | **A****C****E****D****T**  |

**Using the figure below, find the measure of each of the following arcs.**

**A**

**B**

**C**

**D**

|  |  |
| --- | --- |
| 28. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |   |
| 29. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |   |
| 30. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |   |
| 31. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

**In the figure below, is a diameter and is a tangent to . Find the measure of the following angles.**

|  |  |
| --- | --- |
| 32. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **A****O****B****C****D** |
| 33. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 34.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

**ARCS & CHORDS**

**Find the indicated measures.**

**C**

|  |  |
| --- | --- |
| 35. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 36. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  and **O****P****M****N****L** |
| **C****E****A****B****D**37. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **O****W****X****Y** and  |
| 38. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  and  |
| 39. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **O****L****N****M****P** |

### INSCRIBED ANGLES

**Find the indicated measure for each of the following.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_
 | Find the . |
| 41. \_\_\_\_\_\_\_\_\_\_ | Find the . |
| 42. \_\_\_\_\_\_\_\_\_\_ | Find the value of ‘’. |
| 43. \_\_\_\_\_\_\_\_\_\_ | Find the value of ‘’. |

ANGLES FORMED BY SECANTS AND TANGENTS

**Find the for each of the following.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_
 |  |
| 1. \_\_\_\_\_\_\_\_\_\_
 |  |
| 1. \_\_\_\_\_\_\_\_\_\_
 |  |
| 1. \_\_\_\_\_\_\_\_\_\_
 |  |

ANGLES OF ALL TYPES

 **is tangent to . is a diameter. , and . Find each of the following.**

**A**

**F**

**D**

**O**

**C**

**E**

**B**

**G**

**1**

**2**

**3**

**4**

**5**

**6**

**7**

**8**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_
 | 1. \_\_\_\_\_\_\_\_\_\_
 |
| 1. \_\_\_\_\_\_\_\_\_\_
 | 1. \_\_\_\_\_\_\_\_\_\_
 |
| 1. \_\_\_\_\_\_\_\_\_\_
 | 1. \_\_\_\_\_\_\_\_\_\_
 |
| 1. \_\_\_\_\_\_\_\_\_\_
 | 1. \_\_\_\_\_\_\_\_\_\_
 |

**Find the measure of each of the following if , , , and**

**.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_
 | **O****I****S****T****G****H****1****2****3****4****5****6**1. \_\_\_\_\_\_\_\_\_\_
 |
| 1. \_\_\_\_\_\_\_\_\_\_
 | 1. \_\_\_\_\_\_\_\_\_\_
 |
| 1. \_\_\_\_\_\_\_\_\_\_
 | 1. \_\_\_\_\_\_\_\_\_\_
 |
| 1. \_\_\_\_\_\_\_\_\_\_
 |  |

SPECIAL SEGMENTS IN CIRCLES

**Find the indicated value for each of the following.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_
 |  |
| 1. \_\_\_\_\_\_\_\_\_\_
 |  |
| 1. \_\_\_\_\_\_\_\_\_\_
 | ***.*** |
| 1. \_\_\_\_\_\_\_\_\_\_
 | Find the radius: |

A Mishmash of Answers:

**N**

**A chord that goes through**

**the center of a circle**

**O**

**A line, ray, or segment that intersects**

**a circle at exactly one point**

**The point at which a tangent**

**intersects a circle**

**A segment with one endpoint**

**at the center and the other**

**on the circle**

**P**

**O**

**A segment with both endpoints**

**on the circle**

**A line that intersects a circle**

**at exactly 2 points**

**,,**