**11.1-11.4 Extra Practice**

**\_\_\_\_ 1.** If , and , what is the measure of ?



|  |  |
| --- | --- |
| **a.** |  |
| **b.** |  |
| **c.** |  |
| **d.** |  |

**\_\_\_\_ 2.** If  and , what is the measure of ?



|  |  |
| --- | --- |
| **a.** |  |
| **b.** |  |
| **c.** |  |
| **d.** |  |

**\_\_\_\_ 3.** A woodcarver draws cut lines on the top of a wooden disc. She uses the drawing of her design, as shown. In circle *O*, chords  and  are perpendicular to diameter . Which of the following relationships is true?



|  |  |
| --- | --- |
| **a.** |  |
| **b.** |  |
| **c.** |  |
| **d.** |  |

**\_\_\_\_ 4.** Veronica copies a map of the paths in a park with circular picnic areas. On her map, lines *AC* and *BF* are tangent to circle *D* at points *A* and *E*, respectively. Also, lines *AC* and *BF* are tangent to circle *G* at points *C* and *F*, respectively.



Which of the following statements is true?

|  |  |
| --- | --- |
| **a.** |  |
| **b.** |  |
| **c.** |  |
| **d.** |  |

**\_\_\_\_ 5.** If  and , what is the ?



|  |  |
| --- | --- |
| **a.** |  |
| **b.** |  |
| **c.** |  |
| **d.** |  |

**\_\_\_\_ 6.** A circular token in a board game has two triangles drawn on it, as shown. For which of the following conditions would  in circle *M*?

|  |  |
| --- | --- |
| **a.** |  |
| **b.** |  |
| **c.** |  |
| **d.** |  |

**\_\_\_\_ 7.** In circle *A*, chords  and  intersect at point *F*. The lengths in feet of each segment are shown. What is the length of ?

|  |  |
| --- | --- |
| **a.** | 4.8 feet |
| **b.** | 5 feet |
| **c.** | 9.6 feet |
| **d.** | 10 feet |

**\_\_\_\_ 8.** In circle *G*, inscribed angle  measures *x* degrees. Which of the following describes the measure of ?



|  |  |
| --- | --- |
| **a.** | 2*x* |
| **b.** | *x* |
| **c.** |  |
| **d.** |  |

**\_\_\_\_ 9.** Segments  and  are perpendicular to chords  and . If  is congruent to , and the length of  is 10 millimeters, what is the length of ?



|  |  |
| --- | --- |
| **a.** | 8 millimeters |
| **b.** | 9 millimeters |
| **c.** | 10 millimeters |
| **d.** | 12 millimeters |

 **10.** In circle *B* shown, .



**a.** Determine .

**b.** Determine 

 **11.** In circle *S* shown,  and . Determine .



 **12.** In circle *X* shown,  and . Determine .



Use circle *S* to answer question 13-16.



**13.** Suppose that . What is ?

 **14.** Suppose that . What is ?

 **15.** Suppose that . What is ?

 **16.** Suppose that . What is ?