

Chapter 10 Test Prep

1. Given a diagram, find arc and/or angle measures (*31 points*)
 - a. The measure of a minor arc is the same as its corresponding central angle
 - b. The measure of a major arc is the difference between 360° and its corresponding minor arc
 - c. Arc Addition Postulate
 - d. Measure of an Inscribed Angle Theorem
 - e. Inscribed Quadrilateral Theorem
 - f. Tangent and Intersected Chord Theorem
 - g. Angles Inside the Circle Theorem
 - h. Angles Outside the Circle Theorem (angle = $\frac{1}{2}$ (outer arc – inner arc))
2. Given a diagram, find segment lengths in circles (*22 points*)
 - a. External Tangent Congruence Theorem
 - b. Segments of Chords Theorem
 - c. Segments of Secants Theorem ($w o = w o$)
 - d. Segments of Secants and Tangents Theorem ($w o = t^2$)
 - e. Perpendicular Chord Bisector Theorem and its Converse
3. Given an equation of a circle, identify its center and radius length. (*3 points*)
4. Graph circles given the equation of the circle. (*3 points*)
5. Given the graph, write the equation of the circle. (*3 points*)
6. Given the center and a point on the circle, write the equation of the circle. (*3 points*)
7. Determine whether a given point is on the circle. (*4 points*)
8. Circle Constructions (*11 points*)
 - a. Tangent line through a point on the circle
 - b. Tangent line through a point outside the circle
 - c. Circle that passes through three noncollinear points