

Geometry Study Guide Chapter 12 Circles

12-1 Tangents

1. Do you understand what a tangent is? What it looks like?
2. What is the relationship between a tangent and a radius/diameter?
3. Do you understand Problems 1, 3, 4, 5?
4. Do you understand how to do these problems? p. 767; #6, 7, 13, 18

12-2 Chords & Arcs

1. What is a chord? What does it look like?
2. What is a central angle? What is true about its intercepted arc?
3. What is the relationship between congruent central angles and their chords? Intercepted arcs?
4. What is true about chords that are equidistant from the center?
5. What is true about chords that are perpendicular to the diameter/radius?
6. Do you understand Problems 1, 2, 3, 4?
7. Do you understand how to do these problems? p. 776; #7, 9, 12, 14

12-3 Inscribed Angles

1. What is an inscribed angle? How does it differ from a central angle? How does it relate to the intercepted arc?
2. What is the measure of an inscribed angle that intercepts a semicircle?
3. What is true about opposite angles of a quadrilateral inscribed in a circle?
4. How do you find the measure of the angle formed by a chord and a tangent?
5. Do you understand Problems 1, 2, 3?
6. Do you understand how to do these problems? p. 784; #9, 10, 12, 17, 24

12-4 Angle Measures and Segment Lengths

1. What is a secant? What does it look like?
2. How do you find the measure of an angle that is formed by 2 lines that intersect inside a circle? Outside a circle? How are the methods different? How are the methods similar?
3. Given a point where 2 lines intersect each other, how do you calculate segment lengths? How do you use the “point-to-circle” rule?
4. Do you understand Problems 1, 3?
5. Do you understand how to do these problems? p. 794; #8-11, 15, 17, 18

12-5 Circles in the Coordinate Plane

1. What is the “standard form” of an equation of a circle? What do the h and k stand for?
2. What must you do with the signs of the coordinates of the center?
3. What 2 pieces of information are required to graph a circle or write its equation?
4. If you know the center and the radius, are you able to put them into an equation?
5. If you have the equation, can you determine the center and the radius?
6. Can you calculate the distance between 2 points? How does this apply to finding the radius or diameter?
7. Can you calculate the midpoint of a diameter? How does this apply to finding the center of the circle?
8. If you know the center and the radius, can you locate additional points that would be contained on the circle?
9. If given the equation, can you find the center and the radius? Can you graph that circle?
10. Do you understand Problems 1, 2, 3?
11. Do you understand how to do these problems? p. 801; #8, 13, 17, 19, 21, 25, 35, 37, 44

REVIEW: Chapter Review p. 811-814; Vocabulary; Notes; Homework; Classwork; Quizzes