

NOTES SAMPLE

Unit 12: Circles

- 12.1 Identify and use circle basics including central angles, inscribed angles, arcs, and radians/degree conversions.
 12.2 Find the circumference and arc lengths of a circle and the area of circles, sectors, and segments of circles.
 12.3 Use and apply the characteristics of angles associated with circles.
 12.4 Use and apply the characteristics of segments associated with circles.
 12.5 Relate the equation of a circle with the graph of a circle.
 12.6 Recognize and recall the vocabulary of circles.

12.1 Circle Basics

Keypoints to Remember:

- 1. O is the center of the circle. The figure is $\odot O$.
- 2. AO is a radius.
- 3. CD is a diameter. It is also a chord that passes through the center.
- 4. EF is a tangent at F .
- 5. DE is a chord that does not pass through the center.
- 6. BE is a secant that intersects the circle at B and E .

12.2 Circle Basics

Keypoints to Remember:

- 1. A **central angle** is an angle whose vertex is the center of the circle. $\angle AOC$ has a measure of 100° . Also, these two angles measure the central angle that creates them.
- 2. An **inscribed angle** is an angle whose vertex is on the circle. $\angle ABC$ is an inscribed angle. $\angle ABC$ is a major arc (100°). The 2 points that $\angle ABC$ intersects are B and C .

12.3 Circle Basics

Keypoints to Remember:

- 1. $\angle AOC$ is a central angle. It has a measure of 100° .
- 2. $\angle ABC$ is an inscribed angle. It has a measure of 50° .

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12.5 Distance & Area in a Circle

Keypoints to Remember:

- 1. **arc length** is a fraction of a circle's circumference.
- 2. **area** is a fraction of a circle's area.

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12.8 Angles Associated with Circles

Keypoints to Remember:

- 1. The measure of an angle formed by two lines that intersect inside a circle is half the sum of the measures of the intercepted arcs.
- 2. The measure of each angle formed by a tangent and a chord is half the measure of its intercepted arc.
- 3. An angle is tangent to a circle, then the line is perpendicular to the radius at the point of tangency.
- 4. The measure of an angle formed by two lines that intersect outside a circle is half the difference of the measures of the intercepted arcs.
- 5. The opposite angles of a quadrilateral inscribed in a circle are supplementary.
- 6. An angle inscribed in a semicircle is a right angle.

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12.11 Segments Associated with Circles

Keypoints to Remember:

- 1. If two tangent segments to a circle share a common endpoint outside the circle, then the two segments are congruent.
- 2. In a circle, a diameter is perpendicular to a chord if and only if it bisects the chord and its arc.
- 3. If two chords intersect inside a circle, then the products of the measures of the segments of the chords are equal.
- 4. If two secant segments share a common endpoint outside the circle, then the products of the measures of the entire secant segment and its external secant segment are equal.
- 5. If a tangent segment and a secant segment share a common endpoint outside the circle, then the square of the measure of the tangent segment is equal to the product of the measures of the entire secant segment and its external secant segment.
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12.14 Equations & Graphs of Circles

Keypoints to Remember:

- 1. The standard form of the equation of a circle is $(x - h)^2 + (y - k)^2 = r^2$.
- 2. The center of the circle is (h, k) and the radius is r .
- 3. The general form of the equation of a circle is $x^2 + y^2 + Dx + Ey + F = 0$.
- 4. The center of the circle is $(-\frac{D}{2}, -\frac{E}{2})$ and the radius is $\frac{\sqrt{D^2 + E^2 - 4F}}{2}$.

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A Loxley



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