

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

Diagram's Task:

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

12.2 Circle Basics

Diagram's Task:

- ① A central angle is an angle whose vertex is the center of the circle. $\angle BAC$ has a measure of 100° . Also, these two angles measure the same central angle that creates them.
- ② An inscribed angle is an angle whose vertex is on the circle and whose sides are chords that intersect at the center. $\angle BDC$ is an inscribed angle. It has a measure of 50° .
- ③ An inscribed angle is an angle whose vertex is on the circle and whose sides are chords that intersect at the center. $\angle BEC$ is an inscribed angle. It has a measure of 50° .
- ④ An inscribed angle is an angle whose vertex is on the circle and whose sides are chords that intersect at the center. $\angle BDE$ is an inscribed angle. It has a measure of 50° .

12.3 Circle Basics

Diagram's Task:

When the radius of a circle is 1 unit, the circumference is 2π units. The area of the circle is π square units.

When the radius of a circle is r units, the circumference is $2\pi r$ units. The area of the circle is πr^2 square units.

12.4 Circle Basics

Diagram's Task:

Convert between radians and degrees. Remember to include the units in your answer.

1. $180^\circ = \pi$ radians
 $1^\circ = \frac{\pi}{180}$ radians
 $180^\circ = \frac{\pi}{180} \times 180 = \pi$ radians

2. $90^\circ = \frac{\pi}{2}$ radians
 $90^\circ = \frac{\pi}{180} \times 90 = \frac{\pi}{2}$ radians

12.5 Distance & Area in a Circle

Diagram's Task:

arc length = fraction of a circle's circumference
 $\text{arc length} = \frac{\text{measure of angle}}{360^\circ} \times \text{circumference}$

area = fraction of a circle's area
 $\text{area} = \frac{\text{measure of angle}}{360^\circ} \times \text{area of circle}$

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12.8 Angles Associated with Circles

Diagram's Task:

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.

Diagram's Task:

1. $\angle BAC = 100^\circ$, $\angle BDC = 50^\circ$

2. $\angle BAC = 100^\circ$, $\angle BEC = 50^\circ$

3. $\angle BAC = 100^\circ$, $\angle BDE = 50^\circ$

4. $\angle BAC = 100^\circ$, $\angle BDC = 50^\circ$

5. $\angle BAC = 100^\circ$, $\angle BEC = 50^\circ$

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12.9 Angles Associated with Circles

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6. $\angle BAC = 100^\circ$, $\angle BDE = 50^\circ$

12.11 Segments Associated with Circles

Diagram's Task:

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.

6. Two chords are congruent if and only if they are equidistant from the center.

Diagram's Task:

1. $\angle BAC = 100^\circ$, $\angle BDC = 50^\circ$

2. $\angle BAC = 100^\circ$, $\angle BEC = 50^\circ$

3. $\angle BAC = 100^\circ$, $\angle BDE = 50^\circ$

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12.13 Segments Associated with Circles

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6. $\angle BAC = 100^\circ$, $\angle BDE = 50^\circ$

12.14 Equations & Graphs of Circles

Diagram's Task:

1. The center of the circle is the origin of the coordinate plane.

2. The radius of the circle is the distance from the center to the circumference.

3. The equation of a circle with center (h, k) and radius r is $(x - h)^2 + (y - k)^2 = r^2$.

4. The graph of a circle with center (h, k) and radius r is $(x - h)^2 + (y - k)^2 = r^2$.

12.15 Equations & Graphs of Circles

Diagram's Task:

1. The center of the circle is the origin of the coordinate plane.

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Geometry Unit 12 Circles Test

Michael Smith

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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