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GEOMETRY II

INTRODUCTION
Each chapter includes a prechapter introduction and end-of-the-chapter review section. The end-of-the-chapter review section includes a list of key terms, a list of key concepts, and a list of key formulas. The end-of-the-chapter review section also includes a list of key concepts and formulas.


CIRCLES
CIRCLE - A set of all points in a plane that are equidistant from a fixed point called the center.
RADIUS - A line segment from the center of a circle to any point on the circle.



CHORD - A line segment joining two points on a circle is called a chord of the circle.




THEOREM - Four points are concyclic if and only if the opposite angles of the quadrilateral formed by the points are supplementary.




$\angle A + \angle C = 180^\circ$
 $\angle B + \angle D = 180^\circ$

DIAMETER - A chord that passes through the center of a circle is called a diameter of the circle.




ARC LENGTH - The distance along the circumference of a circle between two points is called the length of the arc.
THEOREM - The length of an arc is directly proportional to the central angle subtending it.
CHORD LENGTH - The length of a chord is directly proportional to the sine of the central angle subtending it.
CIRCUMFERENCE - The circumference of a circle is the distance around the circle. The circumference of a circle is given by the formula $C = \pi d$ or $C = 2\pi r$, where d is the diameter of the circle and r is the radius of the circle.
AREA - The area of a circle is given by the formula $A = \pi r^2$, where r is the radius of the circle.

ARC - A portion of a circle's circumference is called an arc.




THEOREM - In a circle, parallel lines intercept equal arcs.




$\widehat{AC} \cong \widehat{BD}$
 $\widehat{AD} \cong \widehat{BC}$


SEMICIRCLE - A semicircle is an arc of a circle whose endpoints are the endpoints of a diameter of the circle.




MAJOR ARC - An arc greater than a semicircle is called a major arc.



MINOR ARC - An arc smaller than a semicircle is called a minor arc.




CENTRAL ANGLE - An angle whose vertex is at the center of a circle and whose rays contain two points on the circle is called a central angle. The measure of a central angle is the measure of the corresponding intercepted arc.




THEOREM - The length of an arc with central angle θ (in degrees) is given by the formula $s = \frac{\theta}{360} \cdot 2\pi r$, where s is the arc length, θ is the central angle, and r is the radius of the circle.


SECTOR - A sector of a circle is the part of a circle bounded by two radii and an arc.




SEGMENT - A line that intersects a circle at two points is called a secant.



TANGENT - A line that intersects a circle at exactly one point is called a tangent. The radius drawn to the point of tangency is perpendicular to the tangent line.



THEOREM - If two secants, two tangents, or a secant and a tangent intersect outside a circle, then the lengths of the two segments of one secant from the point of intersection to the points of tangency are equal.



$EP \cdot FP = GP \cdot HP$

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Synopsis

Fast Facts at Your Fingertips! REA's Quick Access Study Charts contain all the information students, teachers, and professionals need in one handy reference. They provide quick, easy access to important facts. The charts contain commonly used mathematical formulas, historical facts, language conjugations, vocabulary and more! Great for exams, classroom reference, or a quick refresher on the subject. Most laminated charts consist of 2 fold-out panels (4 pages) that fit into any briefcase or backpack. Each chart has a 3-hole punch for easy placement in a binder. Each chart measures 8 1/2" x 11"

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