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Geometry 2 - REA's Quick Access Reference Chart (Quick Access Reference Charts)




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GEOMETRY II

INTRODUCTION
Each chapter in this geometry reference chart is written in the Quick Access format. This means each entry always begins with a clear, concise definition and continues with a study of what is known and given. The examples of each problem give a general idea of how to solve the problem. The solutions are given in a clear, step-by-step format.


CIRCLES
CIRCLE - A closed curve in the plane that is equidistant from a single point called the center.
RADIUS - A line segment that connects the center of a circle to any point on its circumference.



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




THEOREM - Two chords intersect inside of a circle and the segments of the chords are reciprocals of the segments of the other chord.




$AE \cdot EC = CE \cdot ED$

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




INSULATE - The distance from the center of a circle to any point on its circumference is called the radius of the circle.
THEOREM - The length of a diameter is twice the length of a radius.
 $r = \frac{1}{2}d$ or $d = 2r$ where r is the radius and d is the diameter.
CIRCUMFERENCE - The circumference of a circle is the distance around the circle. The length of the outer edge 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.




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


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 circumference is called a central angle. The measure of a central angle is the measure of the central angle that intercepts the arc.




THEOREM - The central angle of a circle with central angle θ is equal to the measure of the arc it intercepts.
 $m\angle AOB = m\widehat{AB}$




SECTOR - A sector of a circle is the part of a circle between two radii and the arc between them.




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



TANGENT - A line that intersects a circle at one point is called a tangent line. The measure of a tangent line is the length of the tangent line.



THEOREM - If two secants intersect outside of a circle, the product of the lengths of the secant segments from the point of intersection to the points of tangency are equal.
 $EP \cdot EP = EP \cdot EP$



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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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