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


FAST FACTS REVIEW
Quick Access **GEOMETRY II**

INTRODUCTION
Each chapter in this geometry reference chart is a fast and easy-to-use Quick Access Reference Chart. It contains only the most important facts, definitions, theorems, and formulas you need to know to succeed in your geometry course. The charts are designed to be a quick and easy reference for students and teachers alike.


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 a circle and the segments of the chords are reciprocals of the other chord.




$AP \cdot BP = CP \cdot DP$

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




WORTHY NOTE - The circle is composed of all points that are the same distance from the center. The distance from the center to the 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 d is the diameter and r is the radius.
CIRCUMFERENCE - The circumference of a circle is the distance around the circle. The length of the circumference 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.




$AC \cong BD$
 $CD \cong AB$


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 are tangent to the circle at the endpoints of an arc is called a central angle. The measure of a central angle is the measure of the central angle that intercepts the arc.




THEOREM - In a circle, the length of an arc with central angle θ is given by the formula $s = r\theta$, where s is the arc length, r is the radius, and θ is the central angle in radians.

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SECTOR - A wedge-shaped region of a circle bounded by two radii and an arc is called a sector of the circle.




SECTOR - 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 line to the circle. The point of tangency is the point where the line touches the circle.



THEOREM - If two tangents are drawn to a circle from an external point, the line segment from that point to the center of the circle bisects the angle formed by the two tangents.



OP and AP are tangent to the circle at P and Q .

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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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