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

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GEOMETRY II

INTRODUCTION Euclidean geometry is the study of points, lines, and planes. It is based on the work of Euclid, who wrote the first book on geometry, *Elements*. The concepts of Euclidean geometry are based on the following postulates, axioms, and theorems.

CIRCLE A circle is a set of points in a plane that are equidistant from a central point.

RADIUS A radius of a circle is a line segment drawn from the center of the circle to a point on the circle.

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

THEOREM If two chords in a circle are equidistant from the center, then they are congruent.

THEOREM If two chords in a circle are congruent, then they are equidistant from the center.

CONCIRCLE A concircle is a circle that is tangent to the endpoints of a diameter.

MAJOR ARC A major arc is an arc greater than a semicircle.

MINOR ARC A minor arc is an arc smaller than a semicircle.

SEMICIRCLE A semicircle is an arc that is half of a circle.

DIAMETER A line segment that passes through the center of a circle is called a diameter of the circle.

INSCRIBED ANGLE An inscribed angle is an angle whose vertex is on the circumference of a circle and whose rays are chords of the circle.

CIRCUMFERENCE The circumference of a circle is the distance around the circle. The circumference of a circle is approximately $3.14 \times \text{diameter}$. The circumference of a circle is also $2\pi r$, where r is the radius of the circle and π is the ratio of the circumference to the diameter of a circle.

AREA The area of a circle is given by the formula πr^2 , where r is the radius of the circle.

ARC A portion of a circle bounded by two points on the circumference.

THEOREM In a circle, the angle of an arc with central angle θ is given by: $\theta = \frac{m\text{arc}}{360^\circ}$

SECTOR A sector of a circle is the set of points between two radii and the arc between them.

SEGMENT The area of a sector is the area of the circle multiplied by the fraction of the circle that the sector represents.

THEOREM The area of a sector is $\frac{\theta}{360^\circ} \pi r^2$.

THEOREM The area of a sector is $\frac{m\text{arc}}{360^\circ} \pi r^2$.

THEOREM If a line is tangent to a circle at a point, then it is perpendicular to the radius drawn to the point of tangency.

THEOREM If two lines are tangent to a circle from an external point, the line segments from the point of tangency to the point of tangency are equal in length.

THEOREM If two chords in a circle are congruent, then the central angles that they subtend are congruent.

THEOREM If two chords in a circle are congruent, then the arcs that they subtend are congruent.

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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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