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Geometry 1 - REA's Quick Access Reference Chart (Quick Access Reference Charts)




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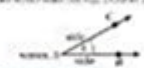
GEOMETRY I

INTRODUCTION
Geometry is the study of shapes and their properties, location, and relationships of points, lines, planes, surfaces, angles, and figures in space. The study of geometry includes proofs, properties, and formulas. Proof is an important concept used to verify the truth of a statement. It is a way to show that two things are the same.


PLANE - A plane is a flat surface with infinite length and width. It is usually represented by a four-sided figure. Look for a plane P .




ANGLES
ANGLE - An angle is formed by two rays that share a common endpoint. An angle is usually labeled with a letter in the center. It is usually labeled as $\angle A$.
 1. An angle formed by two rays that share a common endpoint.
 2. An angle formed by two rays that share a common endpoint and lie in the same plane.
 3. An angle formed by two rays that share a common endpoint and lie in different planes.




POINTS, LINES, AND PLANES
POINT - A point is an exact location in space. It has no size, no length, no width, and no depth. It is usually labeled with a letter. It is usually labeled as P .



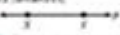
COLLINEAR - Points are said to be collinear if they all lie on the same line.




COPLANAR - Points are said to be coplanar if they all lie on the same plane.



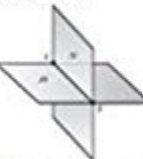
LINE - A line is a straight path that extends infinitely in both directions. It is usually labeled with a lowercase letter. It is usually labeled as l .
 1. Line l
 2. Line AB (read as line AB)
 3. Line BA (read as line BA)




INTERSECTIONS - To intersect is to meet or cross. The intersection of two figures is the set of points that are in both figures.
INTERSECT - If two figures intersect, they intersect at one or more points.




POSTULATE - A postulate is a statement that is assumed to be true without proof.
POSTULATE - If two different planes intersect, their intersection is a line.




LINE SEGMENT - A line segment is a part of a line that is bounded by two endpoints. It is usually labeled with a lowercase letter. It is usually labeled as AB .




CONGRUENCY - Two congruent figures have the same size and shape. The symbol for congruency is \cong .
 $AB \cong CD$



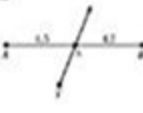
WEDGEPOINT - The wedgepoint of a segment is the point that divides the segment into two congruent segments. It is usually labeled with a letter. It is usually labeled as M .




RAY - A ray is a part of a line that has one endpoint and extends infinitely in one direction. It is usually labeled with a lowercase letter. It is usually labeled as AB .



WEDGEPON - To wedge is to cut or divide into two congruent parts. The wedgepoint of a segment is a point that divides the segment into two congruent parts. It is usually labeled with a letter. It is usually labeled as M .



PROTRACTOR - A protractor is a tool used to draw angles. It is usually labeled with a lowercase letter. It is usually labeled as P .



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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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