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What to know for the Chapter 1 Test

Definitions

- Undefined Terms (points, lines, planes)
- Line segment (endpoints)
- Ray (endpoint)
- Angle (vertex, sides)
- The length of a line segment
- Acute angle
- Right angle
- Obtuse angle
- Straight angle
- Congruent segments (and associated symbology)
- Congruent angles (and associated symbology)
- Collinear points
- Noncollinear points
- Theorem
- Segment bisector
- Midpoint of a segment
- Segment trisectors
- Angle bisector
- Angle trisectors
- Postulate
- Deductive structure
- Conditional statements
- Probability

Theorems
- If two angles are right angles, then they are congruent (the right angle theorem or RAT)
- If two angles are straight angles, then they are congruent
- If a conditional statement is true, then its contrapositive is also true

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Types of Problems

- Determining unions and intersections in diagrams
- Angle and triangle restrictions
- Converting angle measures in degrees, minutes, seconds form to fractional form
- Converting angle measures in fractional form to degrees, minutes, seconds form
- Adding and subtracting angle measures in degrees, minutes, seconds form
- Clock problems
- Assumptions from diagrams (what can be assumed, what cannot be assumed)
- Constructions
  - Segment bisector
  - Angle Bisector
  - Equilateral triangle (60° angle)
- Transformations on the coordinate plane (90°, 180°, 270° and reflection over y = x)
- Symmetry (Rotational and Reflectional)
- Determining the converse, inverse, contrapositive of conditional statements
- Chain of reasoning
- Simultaneous equations
- Probability