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Test Topics

Here the stuff that will be covered on the Chapter 2 test...

Definitions

- Everything defined in Chapter 1
- Perpendicular lines (rays, segment)
- Complementary angles
- Supplementary angles
- Opposite rays
- Vertical angles

Theorems

1. If two angles are right angles, then they are congruent (*Right Angle Theorem*)
2. If two angle are straight angles, then they are congruent (*Straight Angle Theorem*)
3. If a conditional statement is true, then its contrapositive is also true (you don't need to be able to prove this!!)
4. If angles are supplementary to the same angle, then they are congruent
5. If angles are supplementary to congruent angles, then they are congruent
6. If angles are complementary to the same angle, then they are congruent
7. If angles are complementary to congruent angles, then they are congruent
8. If the same segment is added to two congruent segments, then the sums are congruent (*Addition Property of Congruent Segments - Version 1*)
9. If the same angle is added to two congruent angles, then the sums are congruent (*Addition Property of Congruent Angles - Version 1*)
10. If congruent segments are added to congruent segments, then the sums are congruent (*Addition Property of Congruent Segments - Version 2*)
11. If congruent angles are added to congruent angles, then the sums are congruent (*Addition Property of Congruent Angles - Version 2*)
12. If a segment (or angle) is subtracted from congruent segments (or angles), then the differences are congruent (*Subtraction Property of Congruent Segments (or Angles) - Version 1*)
13. If congruent segments (or angles) are subtracted from congruent segments (or angles), then the differences are congruent (*Subtraction Property of Congruent Segments (or Angles) - Version 2*)
14. If segments (or angles) are congruent, then their like multiples are congruent (*Multiplication Property of Congrent Segments (or Angles)*)
15. If segments (or angles) are congruent, then their like divisions are congruent (*Division Property of Congruent Segments (or Angles)*)
16. If angles (or segments) are congruent to the same angle (or segment), then they are congruent to each other (*Transitive Property of Congruent Angles (or Segments) - Version 1*)
17. If angles (or segments) are congruent to congruent angles (or segments), then they are congruent to each other (*Transitive Property of Congruent Angles (or Segments) - Version 2*)
18. Vertical angles are congruent (*Vertical Angle Theorem*)

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Constructions

- Chapter 1 constructions
- Perpendicular to a line from a point not on the line
- Perpendicular to a line from a point on the line

Types of Problems

- True / False / Matching
- Complement / supplement
- Simultaneous equations
- Proofs