**Proofs Helpful Hints**

1. Properties
2. R, S, T
3. Properties of Equality ( Both sides)
4. Substitution
5. Simplifying
6. Postulates
   1. Segment Addition Postulate: Part + Part = Whole
   2. Angle Addition Postulate: Part + Part = Whole
   3. Linear Pair Postulate:  are supplementary (180⁰)
7. Definitions
   1. Midpoint; X is the midpoint of AB, then AX = XB.
   2. Right angle:  is right, then m= 90⁰
   3. Perpendicular lines : AB  CD, then  is right angle
   4. Complementary:  are complementary, then m+ m = 90⁰
   5. Supplementary:  are supplementary, then m+ m = 180⁰
   6. Bisector:  is the bisector of , then 
   7. Congruency: , then AB = BC



1. Theorems
   1. RAT: Right Angle Theorem
   2. VAT: Vertical angle theorem
   3. CST; Congruent supplement Theorem
   4. CCT: Congruent complement theorem

Chapter 2 Review

A.**Conditional Statements: If p then q**

1.Converse:

2.Inverse:

3.Contrapositive:

4. Biconditional

**B. Laws of Logic**

1.Law of Detachment

2. Law of Syllogism

**C. Types of Reasoning**

1. Inductive

2. Deductive

**D. Two-Column Proofs**