Chapter 2 Reasoning and Proofs



- 2.1 Conditional Statements
- 2.2 Inductive and Deductive Reasoning
- 2.3 Postulates and Diagrams
- 2.4 Algebraic Reasoning
- 2.5 Proving Statements about Segments and Angles
- 2.6 Proving Geometric Relationships

Vocabulary

Identify:

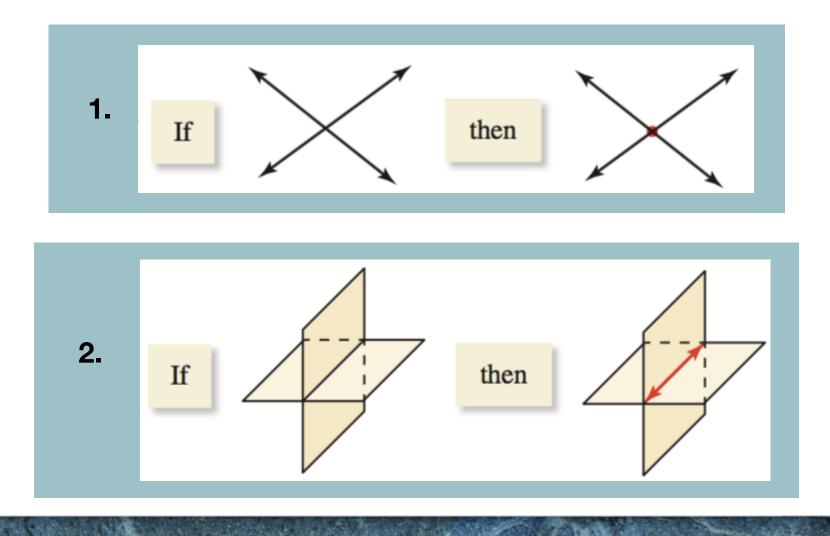
- Undefined terms
- Postulates
- Theorems

Postulates

- 1. Through any two points there exists exactly
- 2. If two lines meet, they intersect at exactly ____
- 3. Through any three non-collinear points there exists exactly
- 4. If two points lie in a plane, then the line containing them

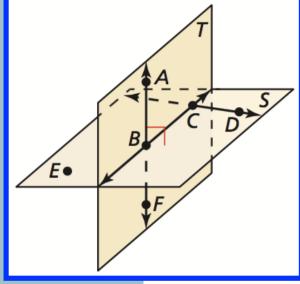
5. If two planes meet, then their intersection is

Identify the Postulate



Using the diagram to the right, which of the following <u>cannot</u> be assumed?

- 1. Points A, B, and F are collinear.
- 2. Points E, B, and D are collinear.
- 3. $AB \perp plane S$
- 4. $CD \perp plane T$
- 5. AF intersects BC at point B.



2.3 - Postulates and Diagrams Venn Diagrams

