Outline:

Chapter 5, Lesson 3

- Contradictions
- Relationships of Opposition
- Points to Remember
  - Contradiction is the relationship between A and O propositions and E and I propositions.
  - Contradictory propositions cannot both be true at the same time.
  - Contradictory propositions cannot both be false at the same time.
  - If one contradictory proposition is true, the other must be false.
  - If one contradictory proposition is false, the other must be true.
- "Men who are lovers of wisdom must be inquiries into many things indeed." Heraclitus
- **Contradiction:** The relationship of contradiction examines the relationship between *A* and *O* propositions and *E* and *I* propositions, which have opposing quality and quantity.
  - A → T: O → F
  - O → T: A → F
  - A → F: O → T
  - O → F: A → T
  - E → T: I → F
  - I → T: E → F
  - E → F: I → T
  - I → F: E → T
  - E: No fish are able to live out of water.
  - I: Some fish are able to live out of water.
  - I: Some diamonds are man-made.
  - E: No diamonds are man-made.