

Algebra Essentials and Applications Internet Activity

ME1 Logic Investigations

1. What is the difference between modus ponens and modus tollens? Are they valid or invalid arguments?

2. Explain why “affirming the consequent” and “negating the antecedent” are invalid arguments.

3. Go to the “Exercises for Conditional Chain Arguments” site and complete the exercises. If you need help, you can click the Introduction button.

4. What is a syllogism?

5. Find the argument that concludes “I am a slug.” Explain why this is not a valid argument.

6. Read the Equivalent Statements link. The discussion between the Hatter, March Hare, and Dormouse can be translated into several conditional statements. Translate each character's statements into conditionals and decide whether each character is correct. Explain.
