

Test #1—Template
Mathematics 308—Modern Geometry
Dr. Barry Peratt

Note: These examples used are for illustration, so that you can better understand the format of the various questions that may appear on the test.

Directions: On a separate sheet of paper, neatly answer the following questions.

1. **Inductive vs. Deductive Reasoning:** List the five main differences between inductive and deductive reasoning.
2. **van Hiele Levels:** List the 5 van Hiele Levels in order and give a concrete example of van Hiele Level 2.
3. **Definitions:** define the following terms.
 - (a) Corollary
 - (b) Another
 - (c) Another
4. **Short Answers:**
 - (a) In the process of forming an axiomatic system such as geometry, inductive reasoning plays a role in the development of what?
 - (b) Another.
 - (c) Another.
 - (d) Another.
 - (e) Another.
5. **Short Paragraph Answers:**
 - (a) Briefly describe the point/counter-point dialogue between Epicurus and Proclus concerning Euclid's work.
 - (b) Another.
 - (c) Another.
 - (d) Another.
6. **Short Paragraph Answers with Choice:**
 - (a) Choose two (2) of the following contributors to geometry and briefly, in a sentence or two, describe their main contribution(s).
 - David Hilbert (1862-1943)
 - Another.
 - Another.
 - Another.
 - (b) Chose two (2) of the following ideas, events, places, or people and briefly, in a sentence or two, describe their significance and/or contribution in the historical development of geometry (or mathematics and reason in general).
 - Islam and La Alhambra in Granada, Spain
 - Another
 - Another