

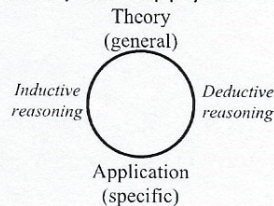
*Rubric for reviewing and evaluating work in
Math 107*

Fall 2002

Condensed version

1. **Identifies the specific situation, problem, or question.**
 - a. To accomplish this, you need to classify the problem, create a plan for the solution, be aware of assumptions, and correctly interpret the information given. If the problem is a word problem, you also need to define all of the variables and their relationships.

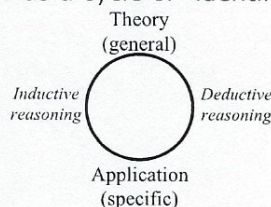
2. **Identifies (and notes) the mathematical the properties applicable to the specific situation, problem, or question.**
 - b. To accomplish this, you need to be able to identify all of the properties that allow you to manipulate the equation or expression leading to your planned solution. You also need to make sure that the properties that you choose are verifiable and appropriate to the circumstance. This step and the one below are completed together as a cycle of "identify and apply."



3. **Demonstrates how the mathematical properties apply to the specific situation, problem, or question.**
 - c. To accomplish this, you need to apply each property that you identified above to the problem correctly. This step and the one above are completed together as a cycle of "identify and apply."

4. Identifies (and notes) the mathematical definitions and notations applicable to the specific situation, problem, or question.

- d. To accomplish this, you need to be able to identify all of the definitions and notations that allow you to manipulate the equation or expression leading to your planned solution and allow someone else to make sense of your work. You also need to make sure that the definitions and notations that you choose are verifiable and appropriate to the circumstance. This step and the one below are completed together as a cycle of "identify and apply."



5. Demonstrates how these definitions and notations apply to the specific situation, problem, or question

- e. To accomplish this, you need to apply each definition or notation that you identified above to the problem correctly. This step and the one above are completed together as a cycle of "identify and apply."

6. Synthesizes the information above into a mathematically consistent solution to the specific situation, problem, or question

- f. To accomplish this, you need to combine all the parts above to arrive at a consistent solution, check for reasonableness and appropriateness of your solution, check your computations, check your units, and make sure that you display your solution appropriately.