

## Guide to the Presentation of a Proof (Rubric/Best Practices)

Presentations of Proofs should be evaluated in three areas: Logic/Reasoning, Understanding/Terminology, and Communication. I've listed below a scale for each area from 0 to 5, with 5 being the best:

### Logic/Reasoning

- 0 Proof shows no logic or is too incomplete to evaluate
- 1 Proof reflects a '1-step' solution; has no middle argument
- 2 Individual steps are logically correct mostly, but the overall argument lacks logical order or the steps are unsupported
- 3 Proof has good logic and overall reasoning, but either several small steps or one big step is wrong or missing
- 4 Proof is logical and complete but is too mechanical in the details or makes some small mistakes
- 5 Proof is correct, efficient and shows proper detail in all parts

### Understanding/Terminology

- 0 No understanding or improper use of terminology
- 1 Misused terminology or definitions
- 2 Proper terminology but incomplete understanding (missing 'essence')
- 3 Shows understanding but using natural or imprecise language
- 4 Shows understanding and uses proper terminology, but misses some finer points
- 5 Shows understanding of all parts and uses terminology properly

### Communication

- 0 No structure or unreadable
- 1 Follows proper basic structure for type of proof
- 2 And provides proper support or reasons for important steps
- 3 And has proper use of notation
- 4 And uses complete sentences and makes no spelling or grammar mistakes
- 5 And has good flow