

Evaluating Proofs by Induction

This worksheet guides your review of a classmate's creative work. Use the prompts below to provide feedback while reflecting on how the piece engages with course concepts and creative choices.

Questions to consider in your evaluation

Is the statement being proven actually true? If no, then we need to evaluate the "proof by induction" to find the flaw(s) in their argument. If yes, then we need to determine if the "proof" actually proves the statement, and how well that "proof" is communicated to completely prove the statement.

Evaluating an argument or proof

- A. Is the "proof" correct?
 - Does the "proof" actually prove the statement it is claiming to prove?
 - Does it use correct logical reasoning to arrive at each conclusion?
 - Is the principle of induction properly and accurately applied?
- B. Are there any gaps in the "proof" – places in the proof where a claim is not explained or fully justified?
- C. Is the "proof" properly communicated?

Providing feedback

- A. Respond to these questions by describing what you found in the argument and what evidence you have to support your answer to each question.
- B. Offer a balance of positive comments to reinforce what was done well in the argument (even if the claim or proof is incorrect), and offer constructive comments to help the author learn and improve their proofs by induction.