

Mathematical Induction II: Inequality Proofs

This activity is a collection of a variety of problems from Chapter 10. It is intended to be used as a general, group-oriented activity during the discussion. I include **highlighting** in the original to suggest the key ideas of where the work of induction goes.

1. (20 pts) Use mathematical induction to prove each inequality for the following values of n (fill in the table).

- a. $n = 1, 2, 3, 4$
- b. $n = 2, 3, 4, 5, 6$
- c. $n = 1, 2, 3, 4, 5, 6$
- d. $n = 2, 3, 4, 5, 6, 7$

Base Case	Inductive Step	Inductive Hypothesis	Assume	Goal	Conclusion
a.	✓	✓	✓	✓	✓
b.	✓	✓	✓	✓	✓
c.	✓	✓	✓	✓	✓
d.	✓	✓	✓	✓	✓

2. (20 pts) Use induction to prove the following theorem.

- a. **Let n be the sum of the reciprocals of the first n odd integers. Then $n < 2$.**
(This theorem is not highlighted since it is)
- b. **Let n be the sum of the first n odd integers. Then $n < 2n^2$.**
(This theorem is not highlighted since it is not an inequality and not particularly useful.)
- c. **Let n be the sum of the first n odd integers.**
(This was the motivation for the first theorem. The hypothesis is not highlighted since it is not an inequality and not particularly useful.)
- d. **Let n be the sum of the first n odd integers. Then $n < 2n^2$ if and only if $n < 2$.**
(This theorem is not highlighted since it is not an inequality.)

Liberty Educ 606 Learning Activity 3

JS Bruner



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Liberty Educ 606 Learning Activity 3 Book Review: Unveiling the Magic of Language

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