

Homework 1

Introduction to Mathematical Proof, MTH 301

Instructor: Abhijit Champanerkar

Due Date: Sep 8, 2026 11:59 PM on Brightspace



This question is based on the game **SubDivvy** on page 6 of the book. At the end of the class today the students conjectured:

1. Any even number is a winning position.
2. Any odd number greater than one is a losing position.

Please write up to one page of your thoughts on **any one statement above**. In particular answer the following:

1. Do you believe this statement is true ?
2. If yes, then why ? Justify your answer.
3. If no, then give an example to disprove the statement.

Instructions on submitting answers:

1. Answers should be handwritten, not typed.
2. Answer should be no more than one page.
3. Scan your answer as a pdf and upload.