

Math 2001 - Writing project 1

First draft due October 12, final version October 19, 2020

The following **writing project** will be graded on clarity and correctness and should be typed in LaTeX.

Please submit your write-up (first draft) on Canvas by October 12. This will then be marked. You have another week to incorporate feedback from the first draft in a revision (second draft) to be submitted by October 19. This second draft will then determine the final grade.

Write a complete guide to the game Poison for n stones. Include the following:

- (1) a section describing the game;
- (2) another section that contains the main result as a theorem: What is the outcome of the game depending on n (i.e., who will win if both players know what they are doing?);
- (3) a proof for the theorem describing the optimal strategy and arguments why this strategy works.