Problem of the Week

The problem of the week will return in the Spring 23 semester. We thank everyone who participated this Fall. For the winter break, we suggest reviewing all the problems from the Fall and working on the additional problems posted at the bottom of the provided solutions.

Overview

Every other Monday (starting 08/29/22), we will post a problem to engage our mathematical community in the problem solving activity and to enjoy mathematics outside of the classroom. Students (both undergraduate and graduate) are particularly encouraged to participate as there is no better way to practice math than working on challenging problems. If you have a solution and want to be a part of it, e-mail your solution to Marcin Mazur (mazur@math.binghamton.edu) by the due date. We will post our solutions as well as novel solutions from the participants and record the names of those who've got the most number of solutions throughout each semester.

When you submit your solutions, please provide a detailed reasoning rather than just an answer. Also, please include some short info about yourself for our records.

Previous Problems and Solutions

- **Problem 7**
- **Problem 6** We have not received any solutions.
- **Problem 5** Solution received from Levi Axelrod and Ashton Keith.
- **Problem 4** Solution received from Garrett Gramzow, Prof. Vladislav Kargin, and Ashton Keith.
- **Problem 3** Solution received from Prof. Vladislav Kargin.
- **Problem 2** Solved by Prof. Vladislav Kargin and Ashton Keith.
- **Problem 1** Solution submitted by Simon Bange, Ezra Dryer, Garrett Gramzow, Xi Li, Prakash Singh.
- **Spring 2022**
- **Fall 2021**
- **Spring 2021**
- **Fall 2020**
- **Summer Challenge**
- **Spring 2020**