Problem of the Week

The problem of the week will return in the Spring semester. We thank everyone who participated this Fall and we congratulate Yuqiao Huang, who is again an undisputed leader this semester (as he was in the Spring 2020). 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 08/31/20), 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 solutions (from us) as well as novel solutions from 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 Solved by Yuqiao Huang.
- Problem 6 Solved by Yuqiao Huang.
- Problem 5 Solved by Yuqiao Huang.
- Problem 4 Solved by Yuqiao Huang.
- Problem 3 Solved by Yuqiao Huang.
- Problem 2 Partial solutions received from Yuqiao Huang, Maxwell T Meyers, and Matthew Pressimone.
- Problem 1 Solved by John Giaccio and Yuqiao Huang.
- Summer Challenge
- Spring 2020