



MATH PROBLEM OF THE WEEK

Spring 2021

Problem 3

Find all integer solutions x, y, p to the equation

$$x + y + x^2 + y^2 = p$$

such that p is a prime number.

We welcome solutions from everyone. The undergraduate participant from the NMSU main campus with the most correct solutions at the end of the semester will receive an award of \$500.

Solutions must be mathematically rigorous and originally obtained by the participants.

Deadline: Monday, April 19, 10 am

Send solutions to: mathpotw@nmsu.edu

More information at: <https://math.nmsu.edu/activities/math-problem-of-the-week.html>