



MATH PROBLEM OF THE WEEK

Spring 2024

Problem 3

Find all real numbers x, y such that $x^2 = 8x + y$ and $y^2 = 8y + x$.

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. Participants will be notified if their solutions are correct within a week.

Deadline: Monday, March 4, 10 am

Next problem will be posted on March 4

Send solutions to: mathpotw@nmsu.edu

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