



# MATH PROBLEM OF THE WEEK

Spring 2021

## Problem 5

Let  $\Delta$  be a right triangle in the plane whose sides have integer lengths. Show that  $\Delta$  is similar to a right triangle whose hypotenuse is on the  $x$ -axis and whose vertices have integer coordinates.

**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, May 3, 10 am**

**Send solutions to: [mathpotw@nmsu.edu](mailto:mathpotw@nmsu.edu)**

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