

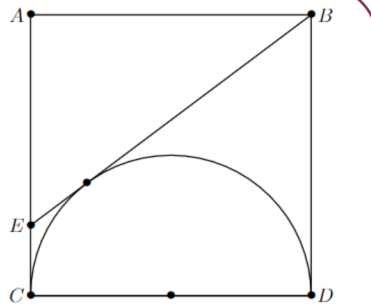


# MATH PROBLEM OF THE WEEK

## Spring 2024

### Problem 2

The square  $ABCD$  has side-length 8. Inside, the line  $BE$  is tangent to the semi-circle. Find the length of  $BE$  and justify your answer.



**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, February 26, 10 am**

Next problem will be posted on February 26

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

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