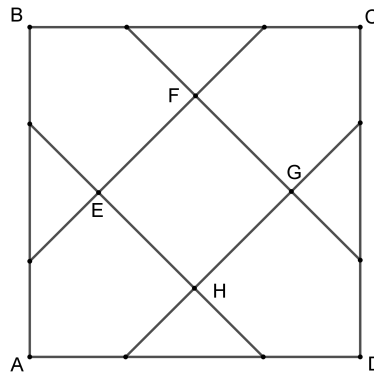# PROBLEM OF THE WEEK #1
(Spring 2022)

The eight segments that form the figure below are all equally long, and the angles formed by their intersections are all exact multiples of 45°. If a point in the square $ABCD$ is chosen at random (uniformly), find the probability that the chosen point lies in the square $EFGH$.

[Please fully explain your answer.]

Email solutions to `kwonmi@uwplatt.edu` by 2:00pm on Wednesday, February 2, 2022.

Every week, the best solution submitted earns a $10 Platteville gift certificate; the top scorer each semester also wins a cash award. Good luck!
You can always see the Problem of the Week (and complete rules) online at:

`http://uwpmath.weebly.com/`