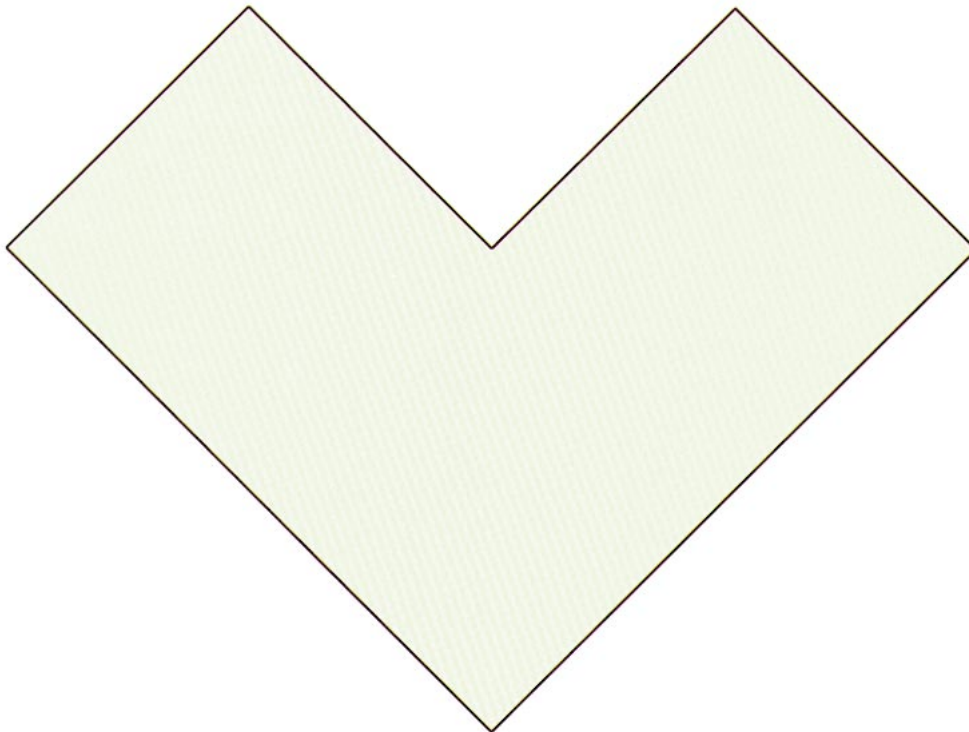


The Problem

Divide this V-shaped region into nine congruent parts. Each part must be similar to the large V. All angles are right angles.



Strategies and Hints

1. Try an easier problem first. Divide the V into just four regions that are congruent to each other and similar to the V.
2. The V could also be divided into three congruent regular polygons. Describe these polygons. How might this information help you solve the problem?
3. You may find the problem easier to solve if you rotate the V 45° clockwise. What does the region look like now?
4. Why do you think some people can solve the problem more easily if the figure is rotated 45° ?