



9-3 Solve It!




Keep your eye on one corner of a shape and follow its path.

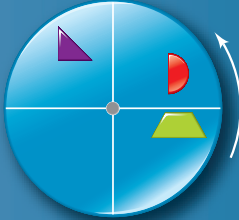



SOLVE IT!

Getting Ready!

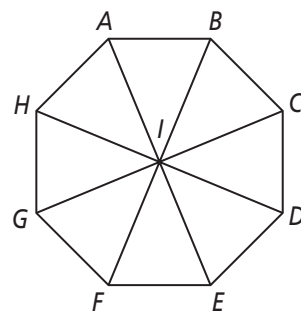


Suppose the colored shapes on the blue disk are blocks and the black shapes on the red disk are holes. Visualize the blue disk on top of the red disk, with their centers attached so that only the blue disk can turn. As the blue disk turns, into which hole does each block fall?

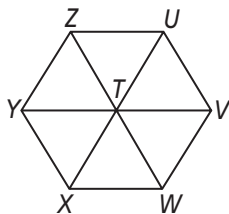
9-3 Lesson Quiz

1. Point I is the center of regular octagon $ABCDEFGH$. What is the image of the given point or segment for the given rotation?



- a. 225° rotation of B about I
- b. 135° rotation of \overline{CD} about I

2. Do you UNDERSTAND? The figure below is a regular hexagon. What is the measure, in degrees, of the angle of rotation about T that maps Y to U ?



Answers

Solve It!

Number the quadrants of the red disk in the same way as you number the quadrants of the coordinate plane. The \triangle falls

into the \triangle hole of Quadrant I. The semicircle falls into the semicircle hole of Quadrant II. The trapezoid falls into the trapezoid hole of Quadrant II.

Lesson Quiz

- a. point E
- b. \overline{AH}
2. 240°