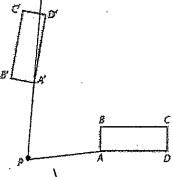
Geometry Honors

2.3 Rotations

Name: Date:

2. Find the angle of rotation and the direction of rotation in the given figure. Point P is the center of rotation.

80° counterdockisse

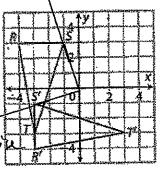


3. Write an algebraic rule for the rotation shown. Then describe the transformation in

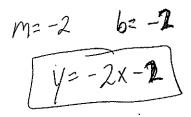
words.

$$S(-1,3)$$
 $S'(-3,-1)$
 $(X,Y) \longrightarrow (-Y,X)$

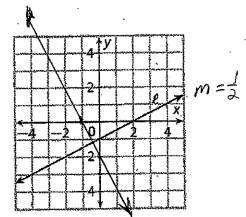
Rolate about the origin 90° counterclockers



Write the equation of the image of line l after a clockwise rotation of 90°.



Pick 2 points + find their images: (0,-1) -> (-1,0) $(2,0) \rightarrow (0,-2)$.



The Skylon Tower, in Niagara Falls, Canada, has a revolving restaurant 775 feet above the falls. The restaurant makes a complete revolution once every hour. While a visitor was at the tower, the restaurant rotated through 135°. How long was the visitor at the tower?

$$\frac{185}{360} = \frac{3}{8} \leftarrow \frac{3}{8} \beta \text{ an hour}$$

deques in I revolution