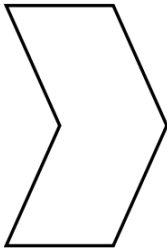


Assignment 7.6 – Geometric Transformations

For each shape, determine then number of lines of symmetry, the order of rotational symmetry, and the angle of rotational symmetry.

1.

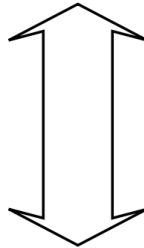


Lines: \_\_\_\_\_

Order: \_\_\_\_\_

Angle: \_\_\_\_\_

2.

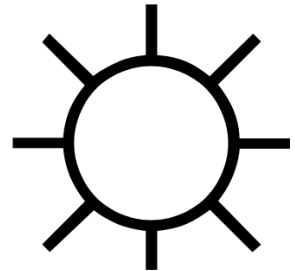


Lines: \_\_\_\_\_

Order: \_\_\_\_\_

Angle: \_\_\_\_\_

3.

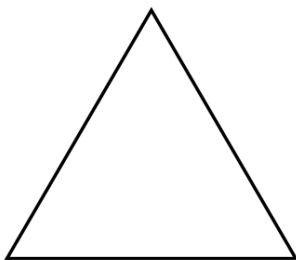


Lines: \_\_\_\_\_

Order: \_\_\_\_\_

Angle: \_\_\_\_\_

4.

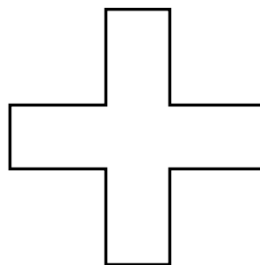


Lines: \_\_\_\_\_

Order: \_\_\_\_\_

Angle: \_\_\_\_\_

5.

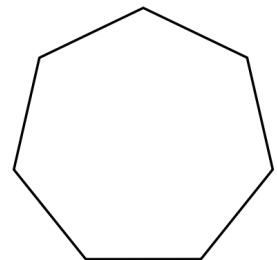


Lines: \_\_\_\_\_

Order: \_\_\_\_\_

Angle: \_\_\_\_\_

6.



Lines: \_\_\_\_\_

Order: \_\_\_\_\_

Angle: \_\_\_\_\_

7.



Explain why this shape does not have any lines of symmetry.

Refresh Your Memory

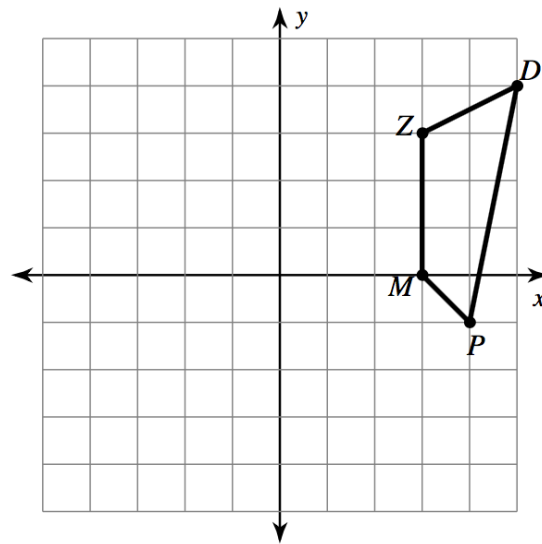
8. Give the slope of a line perpendicular to the given equation.

a.  $y = \frac{2}{3}x - 3$   $\perp m =$

b.  $y = -4x + 1$   $\perp m =$

c.  $y = x + 2$   $\perp m =$

9. Reflect the shape over the line  $y = -3x + 4$ .



10. Rotate the shape  $90^\circ$  counterclockwise around the point  $(1, -2)$ .

