Rotations

A rotation is a turn about a point. The original figure and its image have the same orientation.

N ¼ turn

Z

½ turn

¼ turn
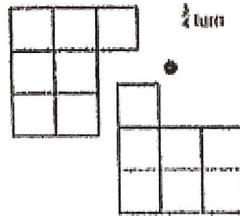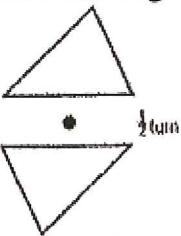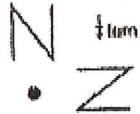
Name the image of the figure named under a half turn about point O.
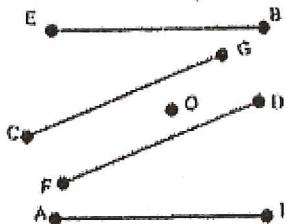
1. $\overline{EB}$ $\overline{AI}$
2. $\overline{DF}$ $\overline{CG}$
3. $\overline{AI}$ $\overline{BE}$

4. Point B   **Point A**
5. Point G   **Point F**
6. Point O   **point O**

9. Which of these figures represent rotations?

a.

b.

c.
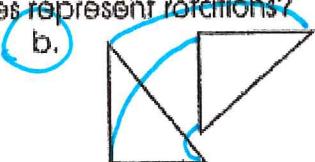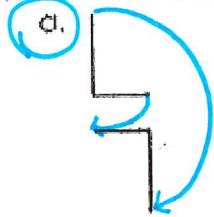
Transformations Review

Translations

A translation is a slide. The original figure and its image have the same orientation.
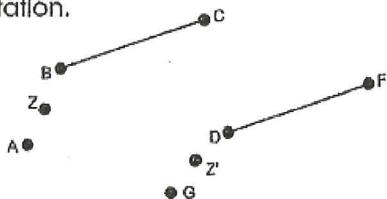
Name the image of each figure under the translation ZZ'.

Point A Point G; $\overline{BC}$ $\overline{DF}$

1. Which of these figures represent translations?

a.

b.

c.

d.

e.

f.
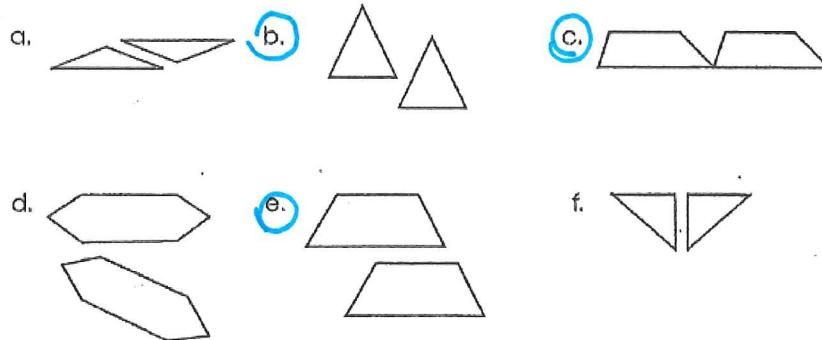
Reflections

A reflection requires a flip. The original figure and its image have opposite orientations.

axis of symmetry

point of symmetry

q|p
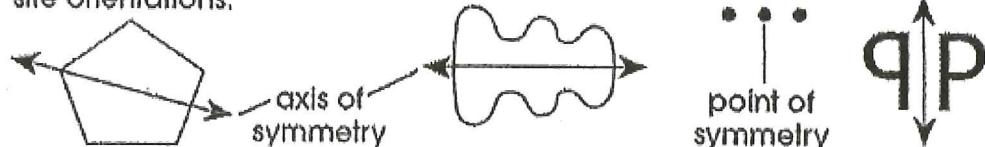
1. Which of these figures represent reflections?

a.

b.   ←— line of reflection

c.   ←— line of reflection
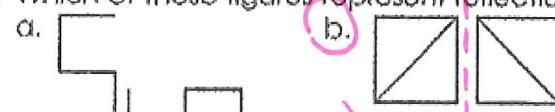
Sketch the axis (or axes) of symmetry for each figure.

2. A

3.

4.

5. B

6. H