12.8 Recognizing Transformations

Given the transformation $\Delta XYZ \rightarrow \Delta X'Y'Z'$, name the preimage and the image of the transformation

      Preimage: Image:

The types of transformations of geometric figures in the coordinate plane can be described as a slide, a flip, a turn, or an enlargement/reduction. What are the more formal names used to identify these transformations?

      a slide: a flip:
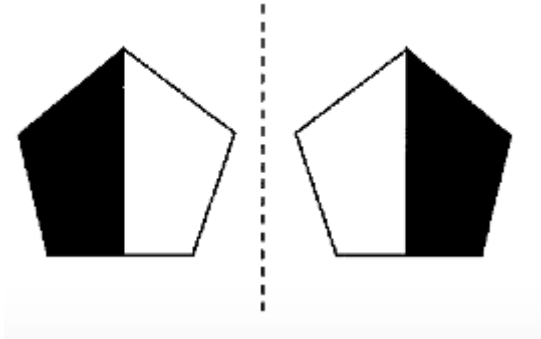
      a turn: an enlargement/reduction:
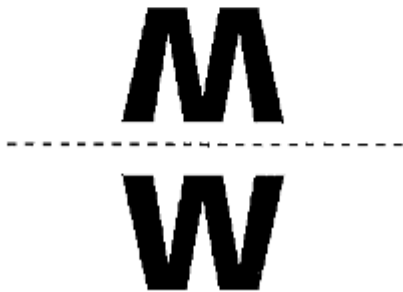
Identify the following transformations.
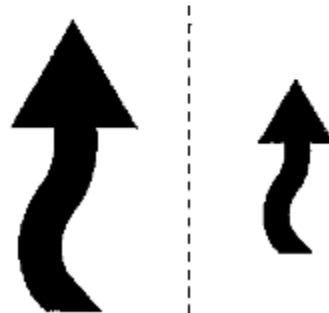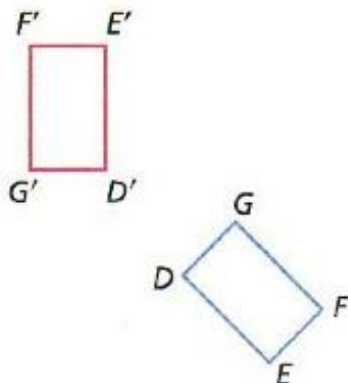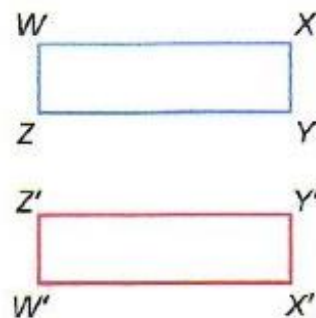
1.

2.

3.

4.

5.

6.

The figures to the right are fairly easy to recognize. However, for the graphs below, you'll need to pay careful attention to the figure's position to determine the transformation.

7

8

1)

2)

3)

4)

5)

6)