

9-1 Additional Vocabulary Support

Translations

Choose the word from the list below that best matches each phrase.

- | | | |
|--------------------------------|---------------------|-------------|
| composition of transformations | corresponding parts | image |
| rigid motion | preimage | translation |
| transformation(s) | | |

1. the figure that results from a transformation _____
2. the original figure in a transformation _____
3. flipping, sliding, or turning a figure _____
4. two or more transformations in combination _____

Use a word from the list above to complete each sentence.

5. This transformation is an example of a _____ because the figure slides in one direction, but does not flip, turn, or change size.



6. This translation is an example of a(n) _____ because it preserves distance and angle measures.

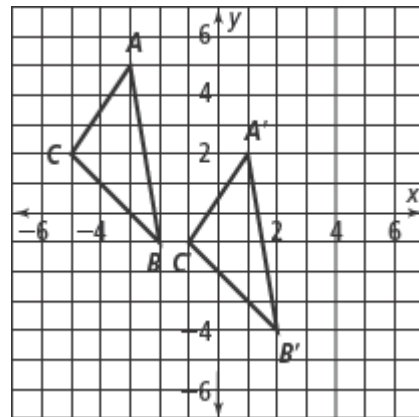


7. In a translation, the sides or angles of the preimage and image that have the same lengths or angle measures are _____.

Multiple Choice

8. For the transformation shown at the right, triangle ABC is called the

- (A) corresponding part. (C) image
 (B) composition. (D) preimage.



9. What type of transformation is shown at the right?

- (F) a flip (H) a slide
 (G) a reduction (I) a turn

9-1

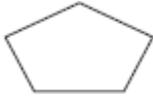
Practice

Form G

Translations

Tell whether the transformation appears to be a rigid motion. Explain.

1.



Preimage



Image

2.

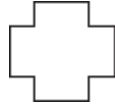


Preimage

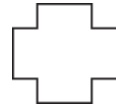


Image

3.



Preimage



Image

4.



Preimage



Image

In each diagram, the dashed-line figure is an image of the solid-line figure.

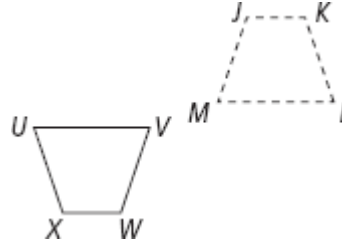
(a) Choose an angle or point from the preimage and name its image.

(b) List all pairs of corresponding sides.

5.

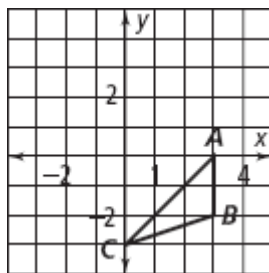


6.

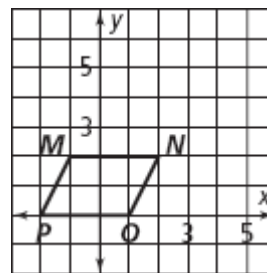


Graph the image of each figure under the given translation.

7. $T_{\langle -1, 4 \rangle} (\triangle ABC)$

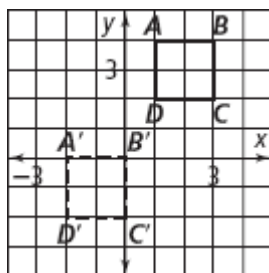


8. $T_{\langle 3, 3 \rangle} (MNOP)$



The dashed-line figure is a translation image of the solid-line figure. Write a rule to describe each translation.

9.



10.

