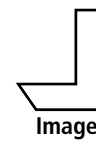
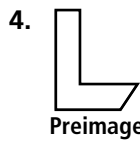
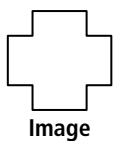
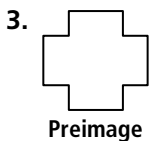
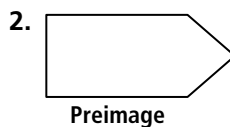
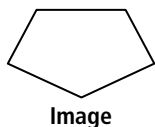
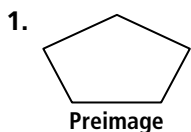


Practice

Form G

Translations

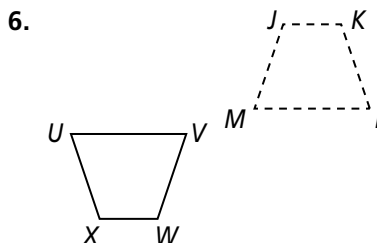
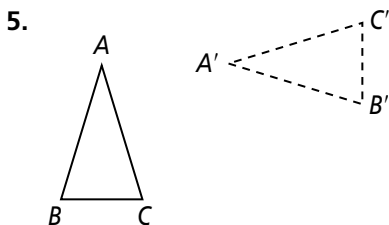
Tell whether the transformation appears to be a rigid motion. Explain.



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

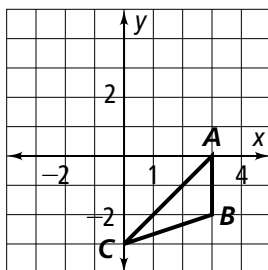
(a) Choose an angle or point from the preimage and name its image.

(b) List all pairs of corresponding sides.

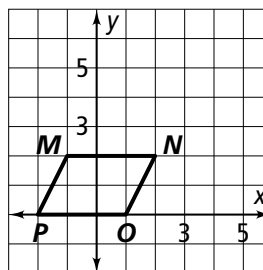


Graph the image of each figure under the given translation.

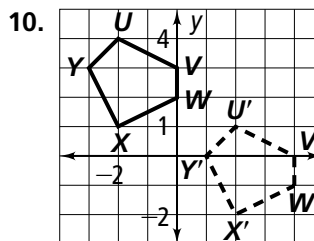
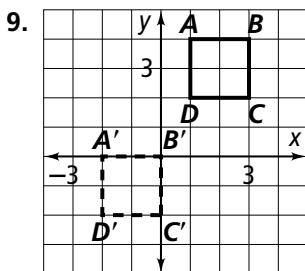
7. $T_{\langle -1, 4 \rangle}(\triangle ABC)$



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.



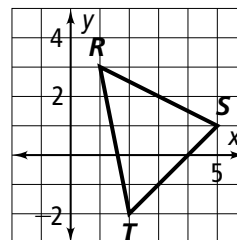
Practice (continued)

Form G

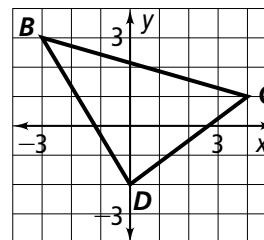
Translations

11. You are visiting Washington, D.C. From the American History Museum you walk 5 blocks east and 1 block south to the Air and Space Museum. Then you walk 8 blocks west to the Washington Monument. Where is the Washington Monument in relation to the American History Museum?
12. You and some friends go to a book fair where booths are set out in rows. You buy drinks at the refreshment stand and then walk 8 rows north and 2 rows east to the science fiction booth. Then you walk 1 row south and 2 rows west to the children's book booth. Where is the children's book booth in relation to the refreshment stand?
13. **Reasoning** If $T_{\langle -10, 15 \rangle}(PQRS) = P'Q'R'S'$, what translation maps $P'Q'R'S'$ onto $PQRS$?
14. $\triangle XYZ$ has coordinates $X(2, 3)$, $Y(1, 4)$, and $Z(8, 9)$. A translation maps X to $X'(4, 7)$. What are the coordinates for Y' and Z' for this translation?

15. Use the graph at the right. Write three different translation rules for which the image of $\triangle RST$ has a vertex at the origin.

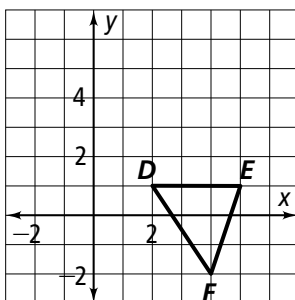


16. Use the graph at the right. Write three different translation rules for which the image of $\triangle BCD$ has a vertex at the origin.



Graph the image of each figure under the given translation.

17. $T_{\langle -3, 4 \rangle}(\triangle DEF)$



18. $T_{\langle -5, 1 \rangle}(KLMN)$

