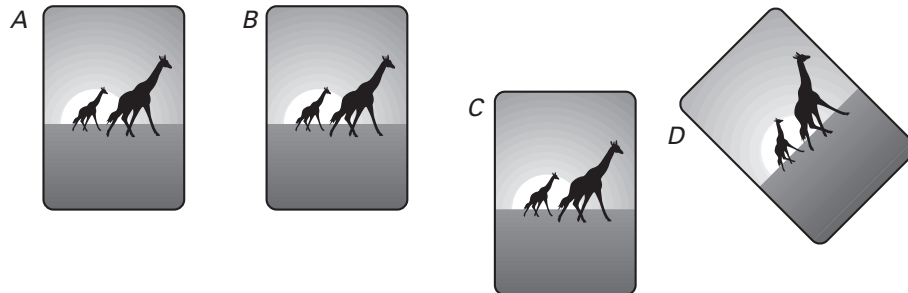


Practice A

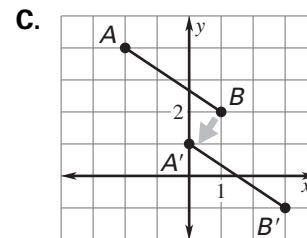
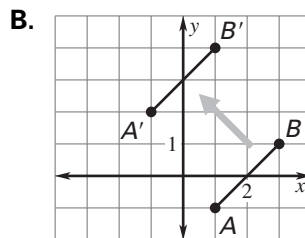
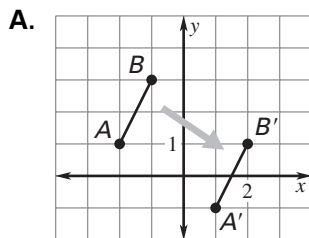
For use with pages 421–428

Four playing cards are face down on the floor. Name the transformation.



1. Shape A is mapped to shape C.
2. Shape A is mapped to shape B.
3. Shape C is mapped to shape D.
4. Shape B is mapped to shape C.

Match the graph with the description of the translation.



5. $(x, y) \rightarrow (x + 2, y - 3)$
6. $(x, y) \rightarrow (x + 3, y - 2)$
7. $(x, y) \rightarrow (x - 2, y + 3)$

Consider the translation that is defined by the coordinate notation

$$(x, y) \rightarrow (x + 4, y - 6)$$

8. What is the image of $(1, 1)$?
9. What is the image of $(-3, 4)$?
10. What is the image of $(5, 2)$?
11. What is the preimage of $(0, 4)$?
12. What is the image of $(3, 0)$?
13. What is the preimage of $(2, -4)$?

Copy figure **ABCD** and draw its image after the translation.

14. $(x, y) \rightarrow (x + 1, y + 4)$
15. $(x, y) \rightarrow (x - 2, y - 2)$
16. $(x, y) \rightarrow (x - 5, y + 6)$
17. $(x, y) \rightarrow (x + 3, y - 5)$

