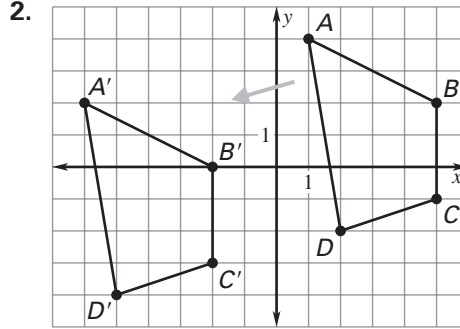
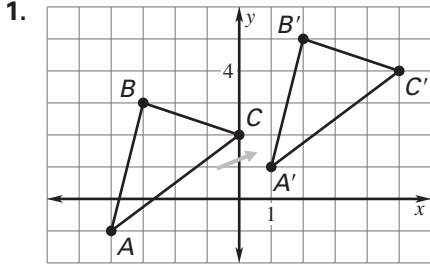


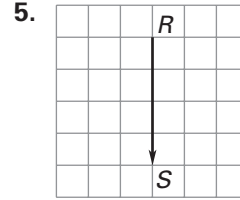
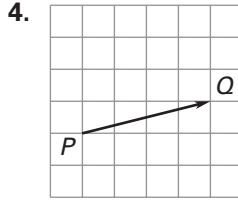
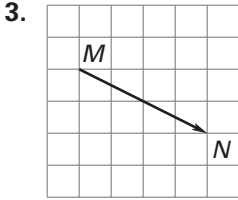
Practice B

For use with pages 421–428

Describe the translation using (a) coordinate notation and (b) a vector in component form.



Name the vector and write its component form.

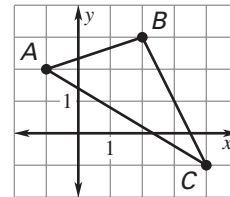


Consider the translation that is defined by the coordinate notation $(x, y) \rightarrow (x - 5, y + 8)$.

- 6. What is the image of $(4, 2)$?
- 7. What is the image of $(-1, 5)$?
- 8. What is the preimage of $(-3, -4)$?
- 9. What is the preimage of $(7, -5)$?
- 10. What is the image of $(0, 2)$?
- 11. What is the preimage of $(-4, 6)$?

Use a straightedge and graph paper to translate $\triangle ABC$ by the given vector.

- 12. $\langle -3, 1 \rangle$
- 13. $\langle 2, -3 \rangle$
- 14. $\langle 4, -1 \rangle$
- 15. $\langle -5, -2 \rangle$



Use the figure at the right which shows the distance between lines ℓ and m to be 4.

- 16. What is the length of $\overline{BB''}$?
- 17. What is the length of $\overline{AA''}$?

