

WARM-UP EXERCISES

For use before Lesson 7.5, pages 429–436

Available as
a transparency

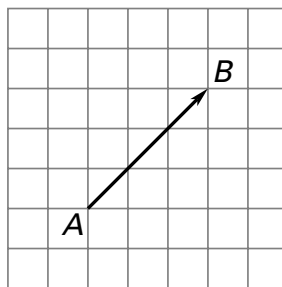
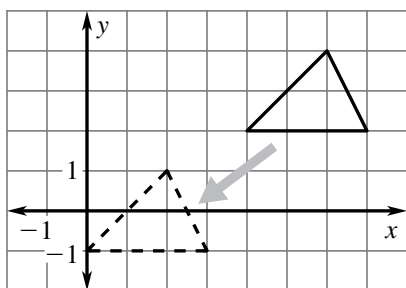
\overline{PQ} has endpoints $P(-4, -4)$ and $Q(-1, -3)$. Find the coordinates of P' and Q' after each translation.

- $(x, y) \rightarrow (x, y + 3)$
 - $(x, y) \rightarrow (x + 1, y - 1)$
 - Find the coordinates of the endpoints of $\overline{P'Q'}$ after \overline{PQ} is rotated 180° about the origin.
 - Find the coordinates of $\overline{P'Q'}$ after \overline{PQ} is reflected in the x -axis.
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DAILY HOMEWORK QUIZ

For use after Lesson 7.4, 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 $(x, y) \rightarrow (x + 4, y - 1)$.
 - What is the image of $(2, 5)$?
 - What is the preimage of $(-1, 3)$?
- The vertices of $\triangle ABC$ are $A(-5, 3)$, $B(4, 2)$, and $C(-1, -1)$. Name the vector that describes a translation such that $A'(-2, -1)$, $B'(7, -2)$, and $C'(2, -5)$.