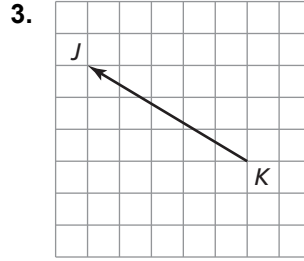
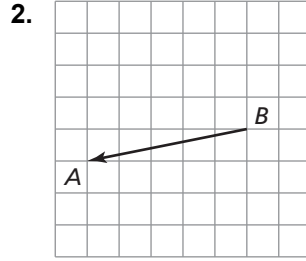
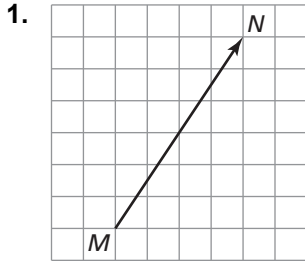


4.1 Notetaking with Vocabulary

Extra Practice

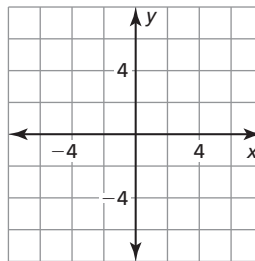
In Exercises 1–3, name the vector and write its component form.



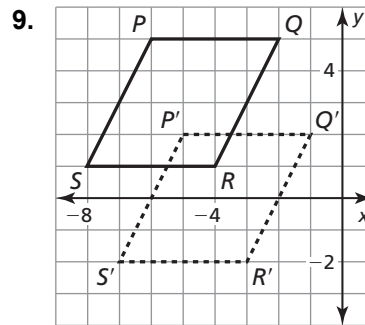
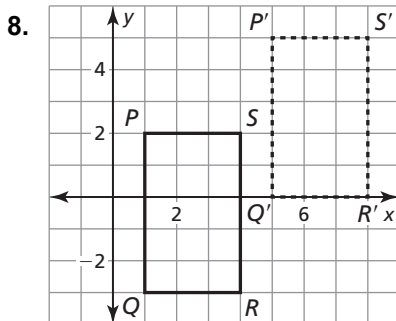
In Exercises 4–7, the vertices of $\triangle ABC$ are $A(1, 2)$, $B(5, 1)$, $C(5, 4)$.

Translate $\triangle ABC$ using the given vector. Graph $\triangle ABC$ and its image.

4. $\langle -4, 0 \rangle$
5. $\langle -2, -4 \rangle$
6. $\langle 0, -5 \rangle$
7. $\langle 1, -3 \rangle$



In Exercises 8 and 9, write a rule for the translation of quadrilateral $PQRS$ to quadrilateral $P'Q'R'S'$.



In Exercises 10 and 11, use the translation.

$$(x, y) \rightarrow (x + 6, y - 3)$$

10. What is the image of $J(4, 5)$?

11. What is the image of $R'(0, -5)$?