

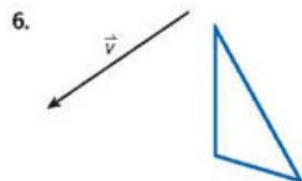
GUIDED PRACTICE

Tell whether each transformation appears to be a translation.



HW 9.2 Online
p614 #1-9, 11-20

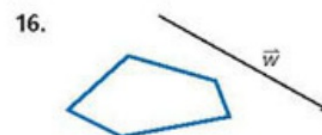
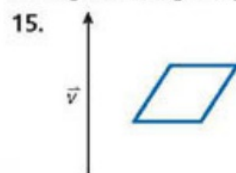
Multi-Step Copy each figure and the translation vector. Draw the translation of the figure along the given vector.



Translate the figure with the given vertices along the given vector.

7. $A(-4, -4), B(-2, -3), C(-1, 3); \langle 5, 0 \rangle$
8. $R(-3, 1), S(-2, 3), T(2, 3), U(3, 1); \langle 0, -4 \rangle$
9. $J(-2, 2), K(-1, 2), L(-1, -2), M(-3, -1); \langle 3, 2 \rangle$

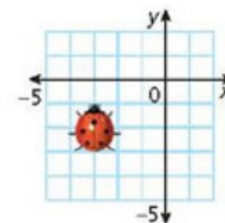
Multi-Step Copy each figure and the translation vector. Draw the translation of the figure along the given vector.



Translate the figure with the given vertices along the given vector.

17. $P(-1, 2), Q(1, -1), R(3, 1), S(2, 3); \langle -3, 0 \rangle$
18. $A(1, 3), B(-1, 2), C(2, 1), D(4, 2); \langle -3, -3 \rangle$
19. $D(0, 15), E(-10, 5), F(10, -5); \langle 5, -20 \rangle$

20. **Animation** An animator draws the ladybug shown and then translates it along the vector $\langle 1, 1 \rangle$, followed by a translation of the new image along the vector $\langle 2, 2 \rangle$, followed by a translation of the second image along the vector $\langle 3, 3 \rangle$.
- a. Sketch the ladybug's final position.
 - b. What single vector moves the ladybug from its starting position to its final position?



PRACTICE AND PROBLEM SOLVING

Tell whether each transformation appears to be a translation.

