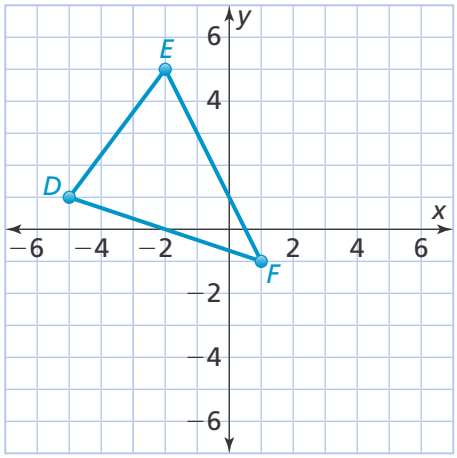
Name: _____

6-1 Additional Practice

Scan for Multimedia

1. Graph $D'E'F'$, the image of triangle DEF after a translation 1 unit right and 3 units down.

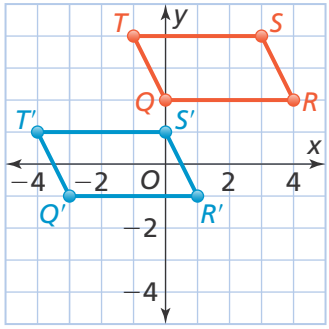


2. The coordinates of $\triangle DEF$ are $D(4, 3)$, $E(7, 3)$, and $F(6, 8)$. If you translate $\triangle DEF$ 4 units left and 3 units up, what are the coordinates of F?

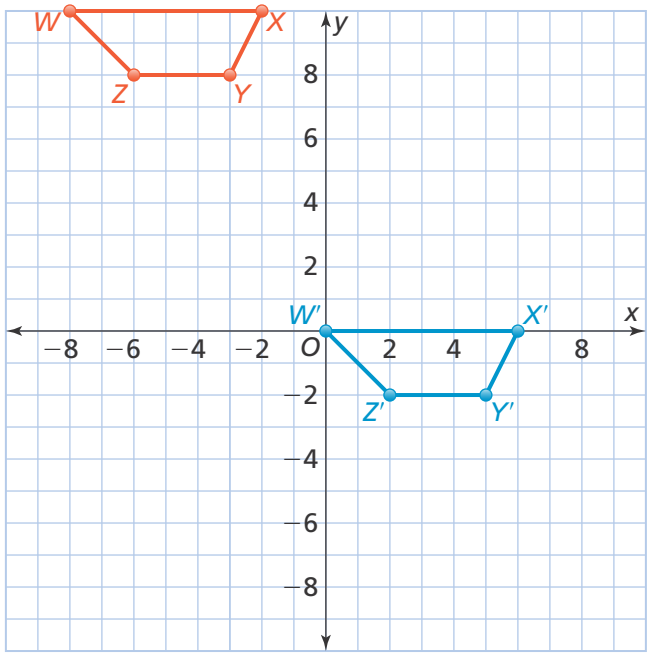
3. Quadrilateral $Q'R'S'T'$ is the image of quadrilateral $QRST$ after a translation.

a. If the perimeter of $QRST$ is about 12.4 units, what is the perimeter of $Q'R'S'T'$?

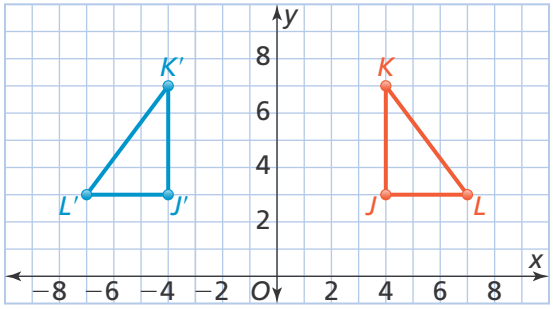
b. If $m\angle S = 115°$, what is $m\angle S'$?



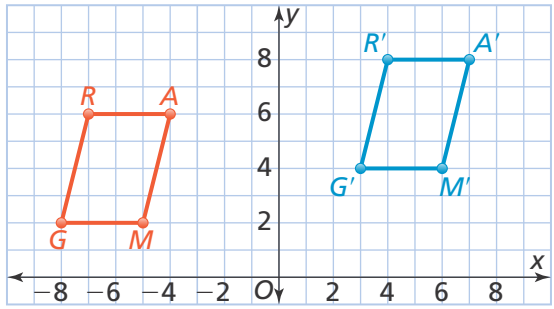
4. Quadrilateral $W'X'Y'Z'$ is a translation of quadrilateral $WXYZ$. Describe the translation.



5. Is $\triangle J'K'L'$ a translation of $\triangle JKL$ Explain.



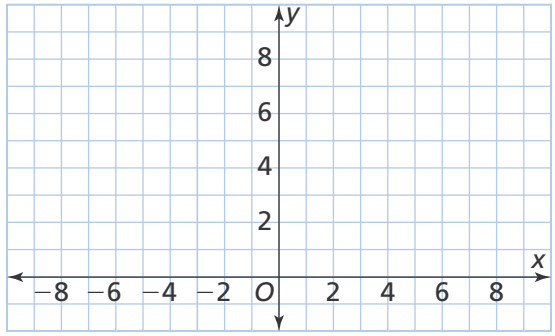
6. Quadrilateral $G'R'A'M'$ is a translation of quadrilateral $GRAM$. Describe the translation.



7. Higher Order Thinking The vertices of pentagon $VWXYZ$ are $V(4, 5)$, $W(6, 5)$, $X(6, 7)$, $Y(5, 8)$, and $Z(4, 7)$.

a. Draw $VWXYZ$ and $V'W'X'Y'Z'$, its image after a translation 10 units left and 2 units down.

b. Estimate the distance between V and V' to the nearest tenth.



Assessment Practice

8. The vertices of ΔQRS are $Q(3, 3)$, $R(7, 3)$, and $S(5, 8)$.

PART A

Graph and label the image of ΔQRS after a translation 2 units left and 2 units up.

PART B

If the $m\angle Q = 67.5°$, what is the $m\angle Q'$?