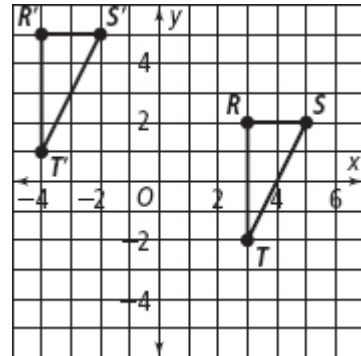


Chapter 9 Summary

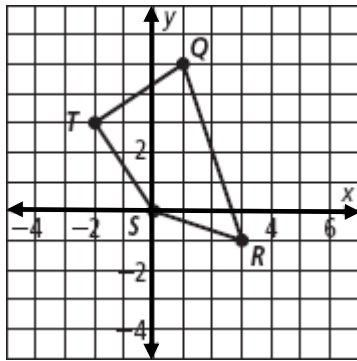
Do you know HOW?

- $\triangle R'S'T'$ is a translation image of $\triangle RST$.
What is a rule for the translation?
- Is a rotation a rigid motion? Explain.

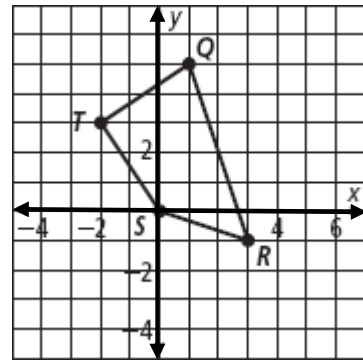


Find the coordinates of the vertices of each image.

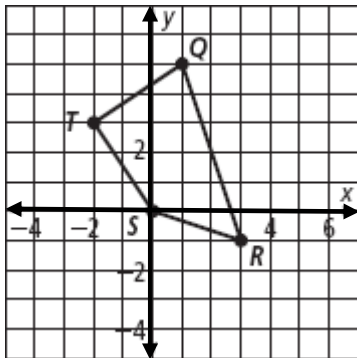
- $R_{y\text{-axis}}(QRST)$



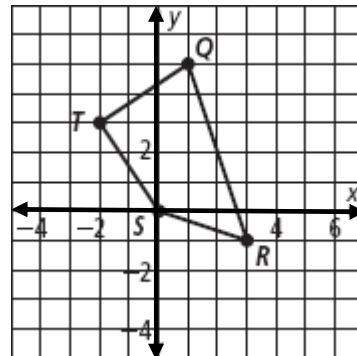
- $r_{(270^\circ, o)}(QRST)$



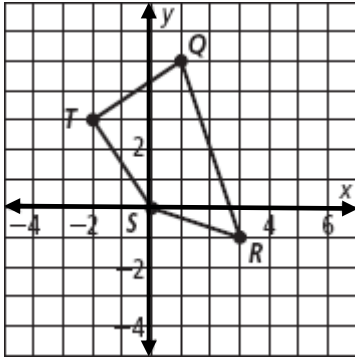
- $D_5(QRST)$



- $T_{\langle 2, -5 \rangle}(QRST)$

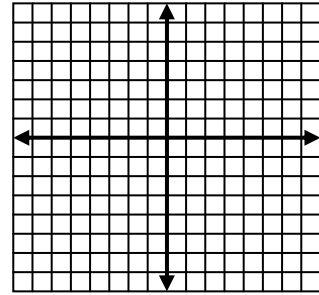


7. $(R_{y=-2} \circ T_{\langle -4, 0 \rangle})(QRST)$



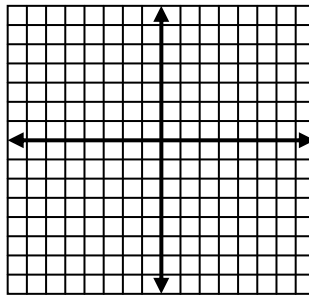
8. **Vocabulary** What is the image of $(-6, 6)$ after a reflection across the y-axis?

9. **Coordinate Geometry** $\triangle ABC$ has vertices at $A(0, 5)$, $B(4, 4)$, and $C(-1, 0)$. Graph the image $T_{\langle -1, -2 \rangle}(\triangle ABC)$.



10. Graph the triangle whose vertices have the coordinates given below. Then draw its reflection across the y-axis.

$(-6, 2), (-2, 3), (-2, 6)$



11. Given $P(-7, 5)$, find the coordinates of the image $T_{\langle 2, -5 \rangle}(P)$.

12. Graph points A and B . Find the coordinates of the endpoints of image if $r_{(90^\circ, O)}(AB)$
 $A(1, 3)$ and $B(-3, -4)$

