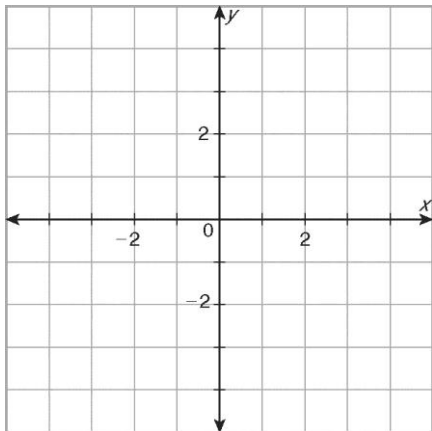


Geometry Notes Section 9-4

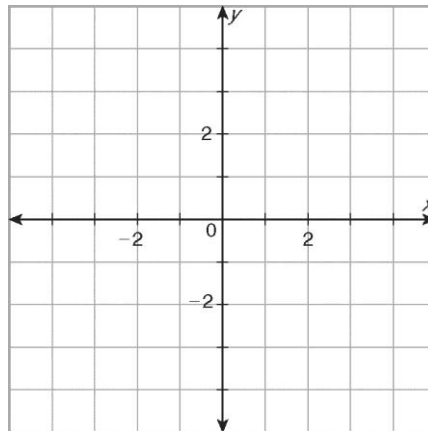
Compositions of Transformations

A **composition of transformations** is one transformation followed by another. A **glide reflection** is the composition of a translation and a reflection.

$\triangle QRS$ has vertices $Q(2, 1)$, $R(4, -2)$, and $S(1, -3)$. Translate $\triangle QRS$ along the vector $\langle 1, 3 \rangle$ and then reflect it across the y -axis.



$\triangle ABC$ has vertices $A(0, -1)$, $B(3, 4)$, and $C(3, 1)$. Rotate $\triangle ABC$ 180° about the origin and then reflect it across the x -axis.



$\triangle RST$ has vertices $R(1, 2)$, $S(1, 4)$ and $T(-3, 4)$. Rotate $\triangle RST$ 90° about the origin and then reflect it across the line $y = x$.

