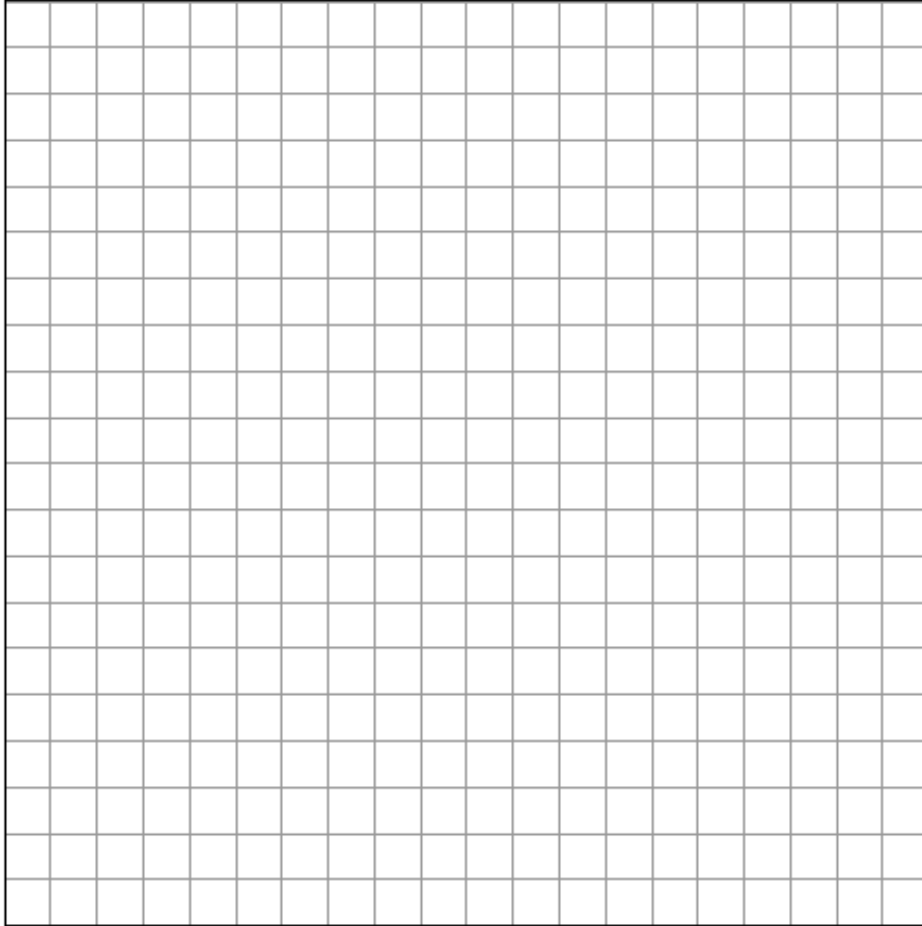


# Composition of Transformations

1.
  - a. Graph  $\triangle ABC$ , with coordinates  $A(2, 2)$ ,  $B(5, 1)$ ,  $C(6, 4)$ .
  - b. Graph  $\triangle A'B'C'$ , the image of  $\triangle ABC$  under the transformation  $R_{O, 90^\circ}$ .
  - c. Graph  $\triangle A''B''C''$ , the image of  $\triangle A'B'C'$  under the transformation  $R_O$ .
  - d. What single transformation is the *composite* of the transformations in parts *b* and *c*?



2.

- a. Graph  $\overline{AB}$ , with coordinates  $A(-1, 2)$  and  $B(-2, 0)$ .
- b. Graph  $\overline{A'B'}$ , the image of  $\overline{AB}$  under the transformation  $r_{y\text{-axis}} \circ T_{0,-3}$ .
- c. Graph  $\overline{A''B''}$ , the image of  $\overline{AB}$  under the transformation  $T_{0,-3} \circ r_{y\text{-axis}}$ .
- d. What is the relationship between the composites in parts  $b$  and  $c$ ?

