9.3 Do Now: Transformations

1. A transformation is applied to a triangle, $\triangle CAT \to \triangle C'A'T'$. Circle True or False to identify each transformation correctly represented below.

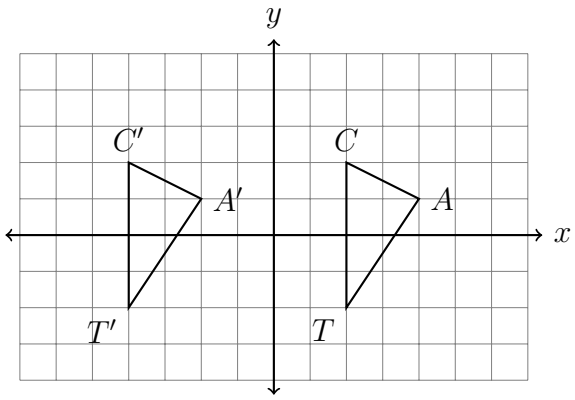
T F Translated six to the left, down zero

T F Reflected across the y-axis

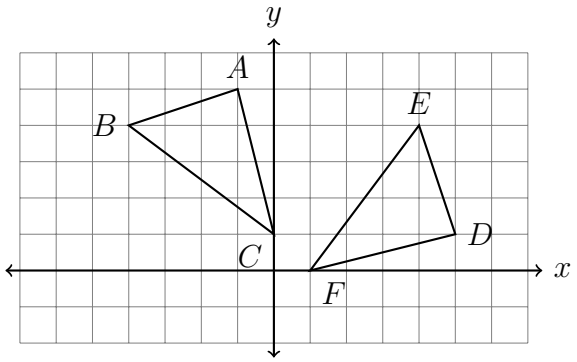
T F $(x, y) \to (x - 6, y + 0)$

T F Rotated 90° counterclockwise around the origin

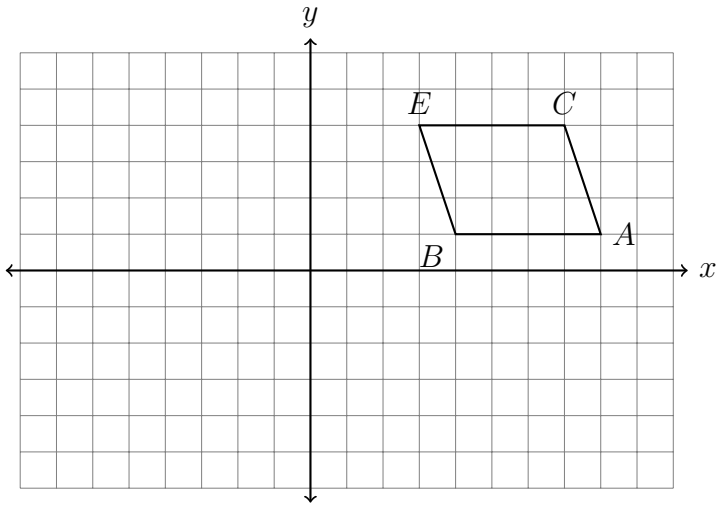
T F A slide six units to the right



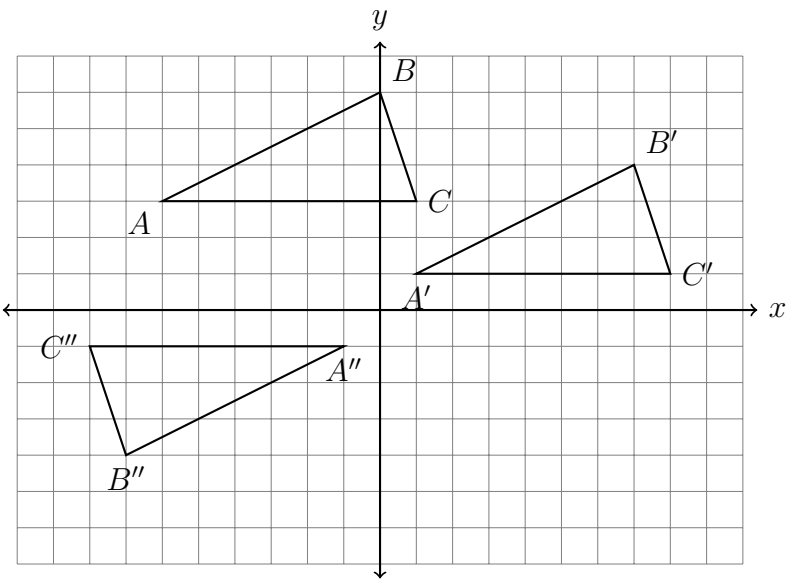
2. Determine and state the transformation mapping $\triangle ABC$ onto $\triangle DEF$. Also, make a mapping table of the coordinate pairs.



3. First reflect the trapezoid $BECA$ across the x-axis, then move it left five and up two. Label the images $B'E'C'A'$ and $B''E''C''A''$.



4. Two transformations have been applied to a triangle in the diagram below, $\triangle ABC \to \triangle A'B'C' \to \triangle A''B''C''$. Fully characterize each transformation.



5. The quadrilateral $ROCK$ undergoes two transformations, shown below. Describe the sequence of transformations applied.