9.2b 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.

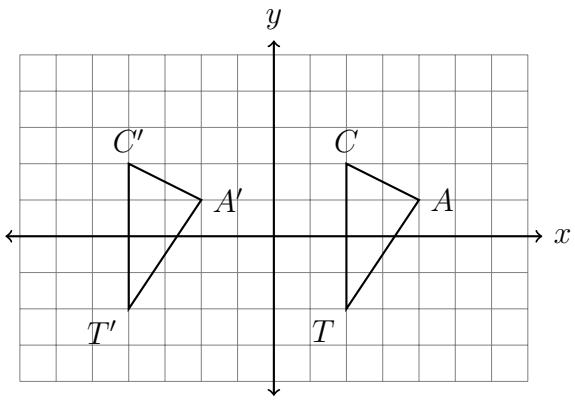
T F Translated six to the left, down zero

T F Reflected across the y-axis

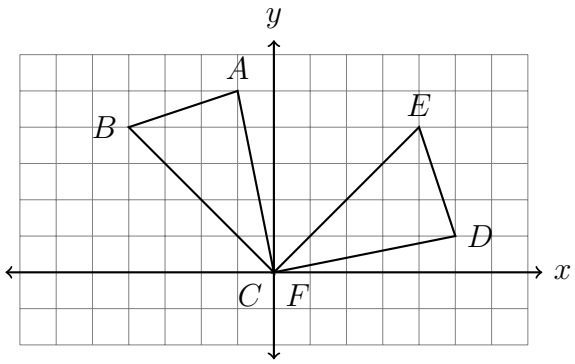
T F $(x, y) \to (x - 6, y + 0)$

T F Rotated 90° counterclockwise around the origin

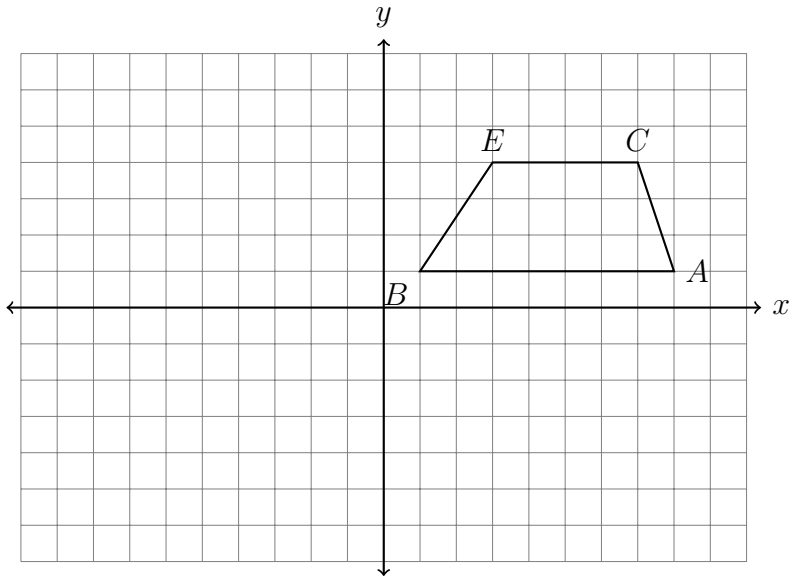
T F A slide six units to the right



2. Determine and state the transformation mapping $\triangle ABC$ onto $\triangle DEF$.

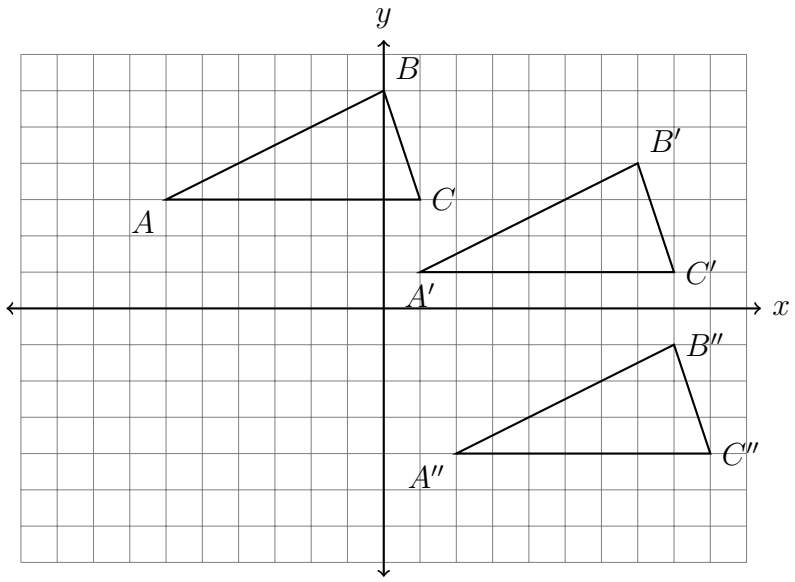


3. Reflect the trapezoid $BECA$ across the x-axis. Label the image $B'E'C'A'$.



Classwork: Composition of a sequence of transformations

4. Two translations have been applied to a triangle in the diagram below, $\triangle ABC \rightarrow \triangle A'B'C' \rightarrow \triangle A''B''C''$. State each translation.



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