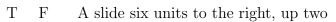
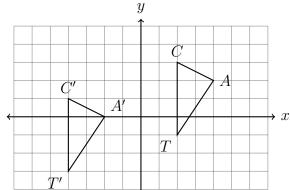
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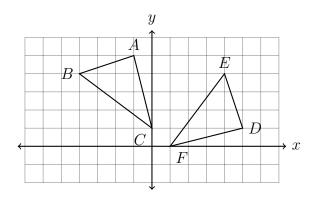
## 9-3bDN-Composition

- 1. A transformation is applied to a triangle,  $\triangle CAT \rightarrow \triangle C'A'T'$ . Circle True or False to identify each transformation correctly represented below.
- T F Translated six to the left, up two
- T F Reflected across the y-axis
- T F  $(x,y) \rightarrow (x-6,y-2)$
- T F Rotated  $90^{\circ}$  counterclockwise around the origin

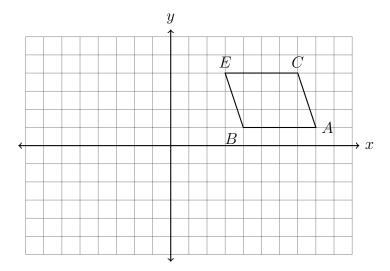




2. Determine and state the transformation mapping  $\triangle ABC$  onto  $\triangle DEF$ . Also, make a mapping table of the coordinate pairs.

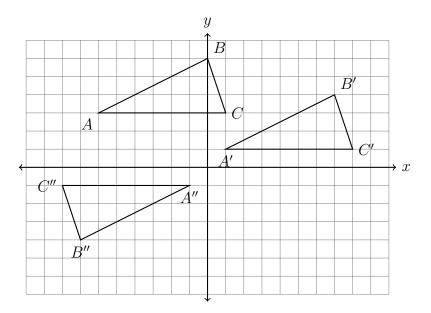


3. First reflect the trapezoid BECA across the x-axis, then move it left five and up two. Label the images B'E'C'A' and B''E''C''A''.



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



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

