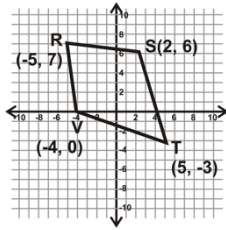


Rotations and Dilations Practice

1. Rotate the following pre-image by 90° counterclockwise.



$$(x, y) \rightarrow (\underline{\quad}, \underline{\quad})$$

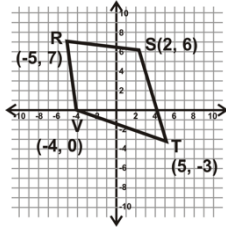
$$R(-5, 7) \rightarrow R'(\underline{\quad}, \underline{\quad})$$

$$S(2, 6) \rightarrow S'(\underline{\quad}, \underline{\quad})$$

$$T(5, -3) \rightarrow T'(\underline{\quad}, \underline{\quad})$$

$$V(-4, 0) \rightarrow V'(\underline{\quad}, \underline{\quad})$$

2. Dilate the following pre-image by a scale factor of $1/2$.



$$(x, y) \rightarrow (\underline{\quad}, \underline{\quad})$$

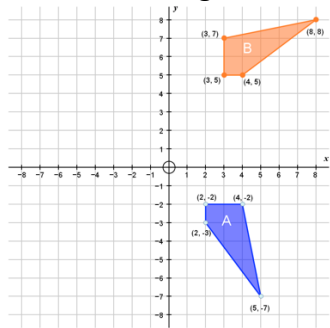
$$R(-5, 7) \rightarrow R'(\underline{\quad}, \underline{\quad})$$

$$S(2, 6) \rightarrow S'(\underline{\quad}, \underline{\quad})$$

$$T(5, -3) \rightarrow T'(\underline{\quad}, \underline{\quad})$$

$$V(-4, 0) \rightarrow V'(\underline{\quad}, \underline{\quad})$$

3. How was the figure below rotated? Write a coordinate rule for the transformation.



4. How was the figure below dilated? Write a coordinate rule for the transformation.

