

Use your white board to complete the following series of transformations.
Enter the coordinates below to check if you are correct.

1. Pre-Image: $\triangle ALT$ $A(-5,-1)$, $L(-3,-2)$, $T(-3,2)$

Translate right 6, down 3 Reflect over the y-axis

$A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$L'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$L''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

2. Pre-Image: $\triangle TAB$ $T(2,3)$, $A(1,1)$, $B(4,-3)$

Reflect over x-axis

Reflect over y-axis

$T'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

3. Pre-Image: $\triangle ALT$ $A(-5,-1)$, $L(-3,-2)$, $T(-3,2)$

90° clockwise

Reflect over x axis

$A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$L'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$L''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

4. Pre-Image: $\triangle TAB$ $T(2,3)$, $A(1,1)$, $B(4,-3)$

Reflect over y-axis

translate 2 right, up 1

$T'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

5. Pre-Image: $\triangle ALT$ $A(-5,-1)$, $L(-3,-2)$, $T(-3,2)$

Rotate 180° clockwise

Reflect over x axis

$A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$L'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$L''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

6. Pre-Image: $\triangle TAB$ $T(2,3)$, $A(1,1)$, $B(4,-3)$

Reflect over y-axis

Translate left 5, down 4

$T'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

7. Pre-Image: $\triangle ALT$ $A(-5,-1)$, $L(-3,-2)$, $T(-3,2)$

Translate right 3, up 2

Reflect image over y-axis

$A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$L'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$L''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

8. Pre-Image: $\triangle ALT$ $A(-5,-1)$, $L(-3,-2)$, $T(-3,2)$

Reflect over the y-axis

Translate right 3 up 2

$A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$L'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$L''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

9. Pre-Image: $\triangle TAB$ $T(2,3)$, $A(1,1)$, $B(4,-3)$

Rotate 90° clockwise

Reflect over x-axis

$T'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

10. Pre-Image: $\triangle TAB$ $T(2,3)$, $A(1,1)$, $B(4,-3)$

Reflect over x-axis

Rotate 90° clockwise

$T'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$T''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

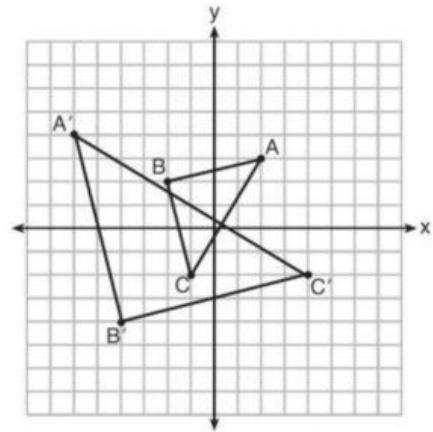
$A''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B''(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

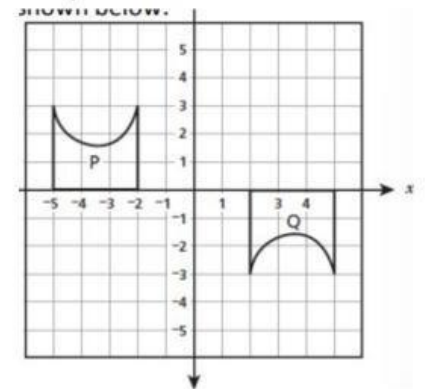
Which sequence of transformations is correct?

- 1) Reflection then translation
- 2) Rotation and Reflection
- 3) Translation and Dilation
- 4) Dilation and Rotation



Which sequence of transformation could take figure P to P'?

- A. Reflection over the x-axis and translation of 7 units right
- B. Reflection over the y-axis and translation 3 units down
- C. Translation 1 unit right and 180° rotation about the origin
- D. Translation 4 units right and 180° rotation about the origin



Which sequence of transformations is correct?
Remember A is Pre-Image, A' is Image.

