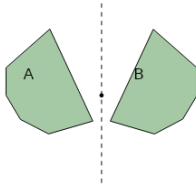




Perform sequences of transformations

1

Is the transformation of shape A into shape B a Reflection?

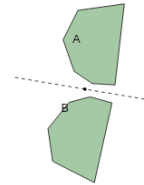


A Reflection

B Not a Reflection

2

Identify the transformation that changes shape A into shape B



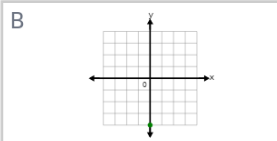
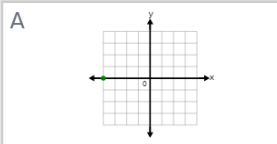
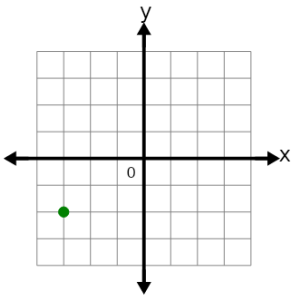
A Rotation

B Reflection

C Translation

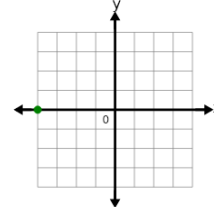
3

Translate this point by left 1, up 2



4

Translate this point by right 2



A (0,2)

B (-2,0)

5

(2,3)

A

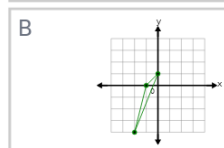
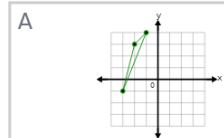
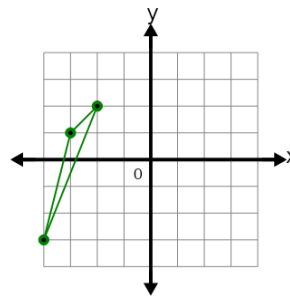
(1,2)

B

(1,-2)

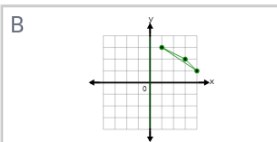
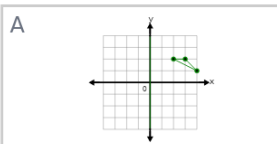
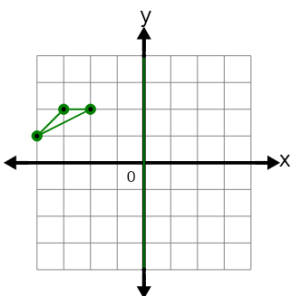
6

Translate this shape by (2,-1)



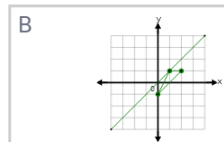
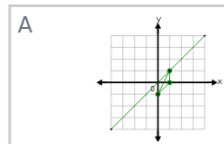
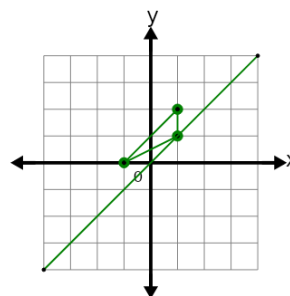
7

Reflect this shape across the Y axis



8

Reflect this shape across the diagonal

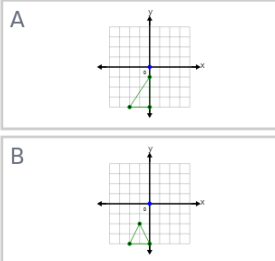
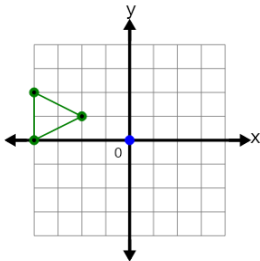




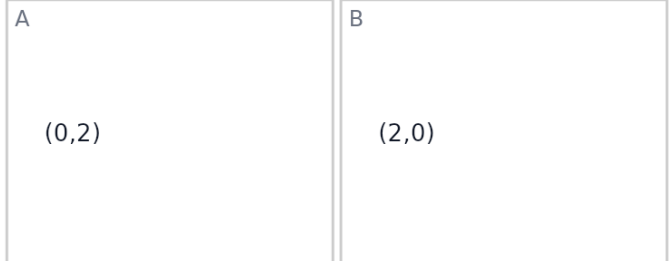
Perform sequences of transformations

9

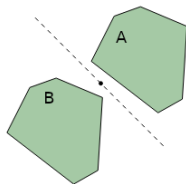
Rotate this shape by 90° counter-clockwise about the origin

**10**

(0, -4)

**11**

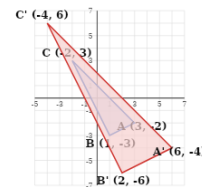
Is the transformation of shape A into shape B a Dilation?



A Dilation B Not a Dilation

12

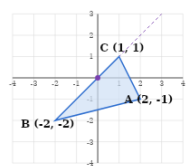
What is the scale factor of the dilation from triangle ABC to triangle A'B'C'?



A 3 B $\frac{1}{2}$ C $\frac{1}{3}$ D 2

13

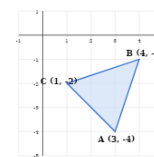
Triangle ABC is dilated about the center (0, 0) with a scale factor of 2. What are the coordinates of C', the image of C?



A (2, 2) B (4, 2) C (4, 5) D (4, 1)

14

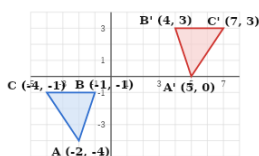
The triangle ABC is transformed by two transformations in sequence: (1) reflect across the y-axis; then (2) translate 3 units right and 3 units down. Is the final image congruent or similar to triangle ABC?



A Similar B Congruent

15

The triangle ABC (blue) is transformed onto triangle A'B'C' (red) by two transformations applied in sequence. Which pair of transformations was used?



A Translate 3 units left and 4 units up, then reflect across the y-axis. B Translate 3 units right and 4 units down, then reflect across the y-axis. C Translate 3 units left and 4 units up, then reflect across the line $y = -x$. D Reflect across the y-axis, then translate 3 units left and 4 units up.