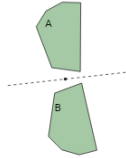




Perform sequences of transformations

1

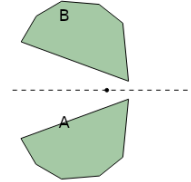
In geometry, what's the name for the transformation that makes a mirror image of a shape?



- A Rostrum B Revelry C Reflection D Radical

2

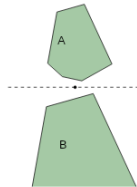
Is the transformation of shape A into shape B a Translation?



- A Not a Translation B Translation

3

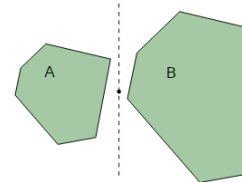
Is the transformation of shape A into shape B a Reflection?



- A Not a Reflection B Reflection

4

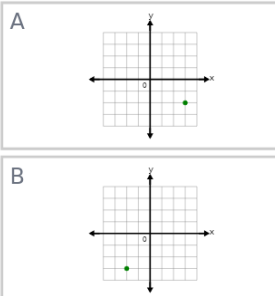
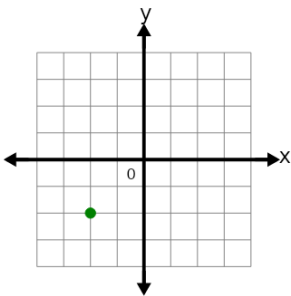
Is the transformation of shape A into shape B a Rotation?



- A Not a Rotation B Rotation

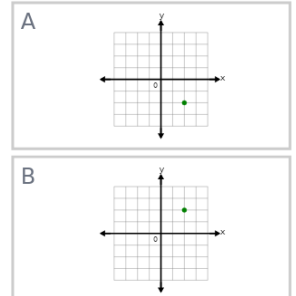
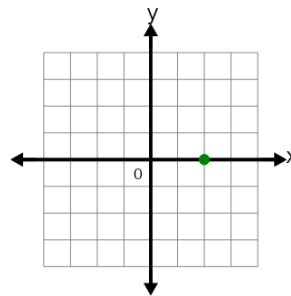
5

Translate this point by down 1



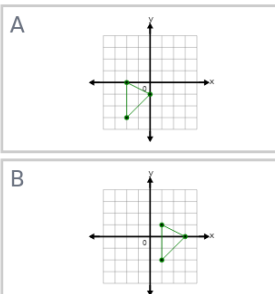
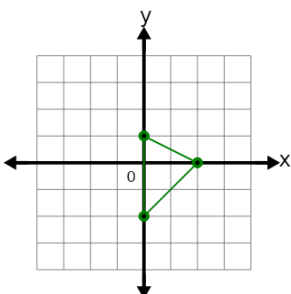
6

Translate this point by down 2



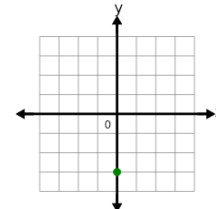
7

Translate this shape by right 1



8

Translate this point by right 2, down 1



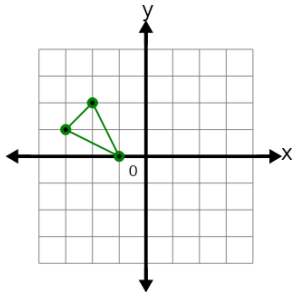
- A (2, -4) B (4, -2)



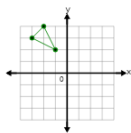
Perform sequences of transformations

9

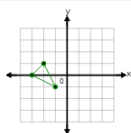
Translate this shape by $(0, -1)$



A

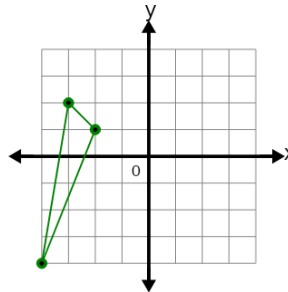


B

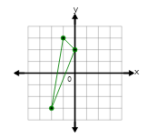


10

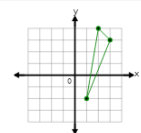
Translate this shape by $(2, 1)$



A

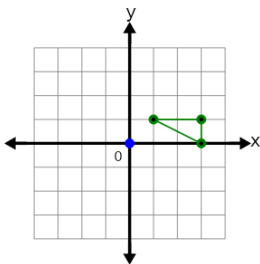


B

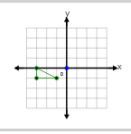


11

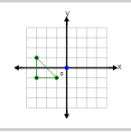
Rotate this shape by 180° counter-clockwise about the origin



A

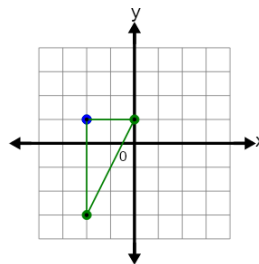


B

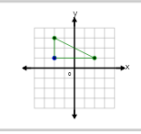


12

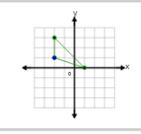
Rotate this shape by 90° counter-clockwise about point $(-2, 1)$



A



B



13

$(-3, 3)$

A

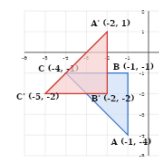
$(-2, 0)$

B

$(2, 0)$

14

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

Reflect across the x-axis, then translate 1 unit left and 3 units down.

B

Reflect across the line $y = -x$, then translate 1 unit left and 3 units down.

C

Translate 1 unit left and 3 units down, then reflect across the x-axis.

D

Reflect across the x-axis, then translate 1 unit right and 3 units up.