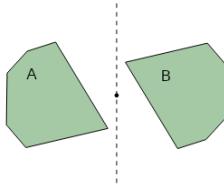




Rotate figures about the origin

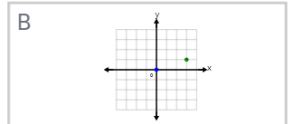
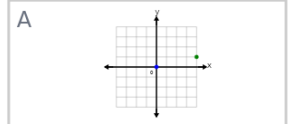
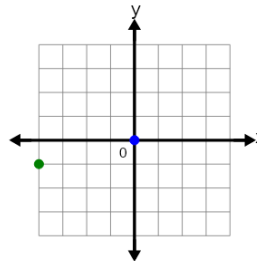
- 1** Is the transformation of shape A into shape B a Rotation?



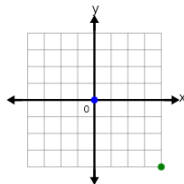
A Rotation

B Not a Rotation

- 2** Rotate this point by 180° clockwise about the origin



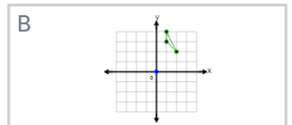
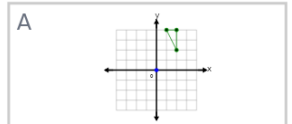
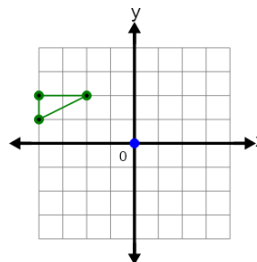
- 3** Rotate this point by 90° counter-clockwise about the origin



A (4,4)

B (4,-4)

- 4** Rotate this shape by 90° clockwise about the origin



- 5** (-1,-4)

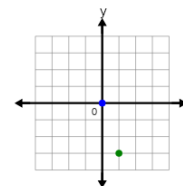
A

(-4,1)

B

(4,-1)

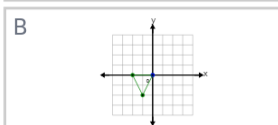
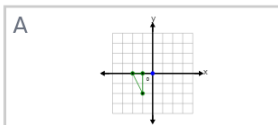
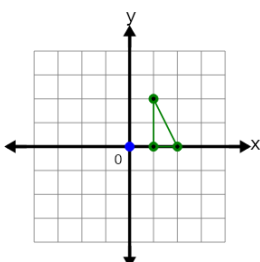
- 6** Rotate this point by 90° counter-clockwise about the origin



A (1,-3)

B (3,1)

- 7** Rotate this shape by 180° clockwise about the origin



- 8** (-2,1)

A

(-1,-2)

B

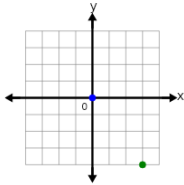
(-2,1)



Rotate figures about the origin

9

Rotate this point by 90° clockwise about the origin

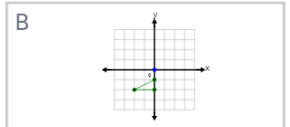
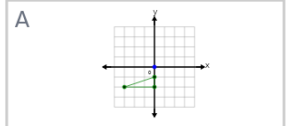
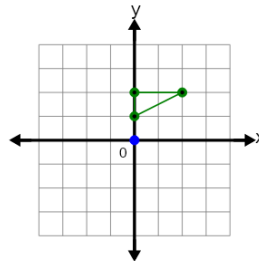


A (-4,3)

B (-4,-3)

10

Rotate this shape by 180° clockwise about the origin



11

(3,0)

A

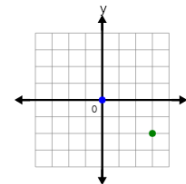
(0,3)

B

(3,0)

12

Rotate this point by 90° clockwise about the origin



A (-3,-2)

B (-2,-3)