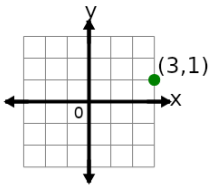
Name

Describe transformations using coordinates

1

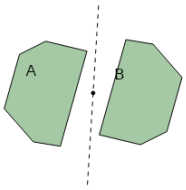
What does the value 1 in the point's coordinate mean?



A	B	C	D
y is equal to -1	x is equal to -1	y is equal to 1	x is equal to 1

2

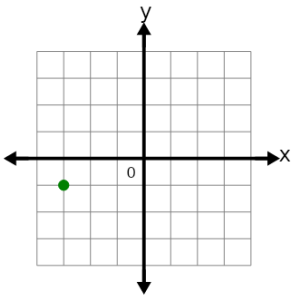
Identify the transformation that changes shape A into shape B



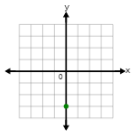
A	B	C
Reflection	Translation	Rotation

3

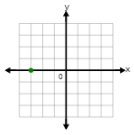
Translate this point by up 1



A

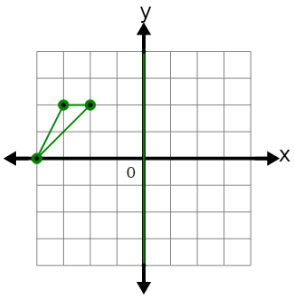


B

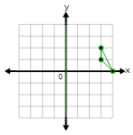


4

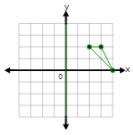
Reflect this shape across the Y axis



A

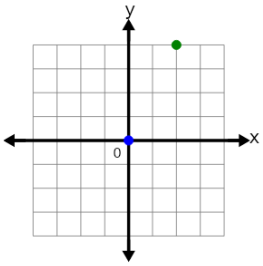


B

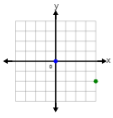


5

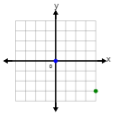
Rotate this point by 90° clockwise about the origin



A

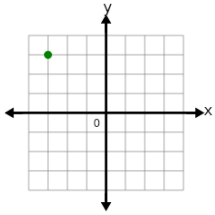


B



6

Translate this point by right 1



A	B
(2,-3)	(-2,3)

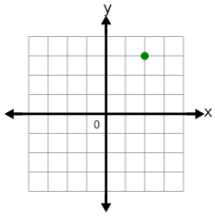
7

(0,-2)

A	B
(1,-2)	(0,0)

8

Translate this point by (1,0)



A	B
(3,3)	(-3,3)

Name

Describe transformations using coordinates

9

(-2,2)

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

10

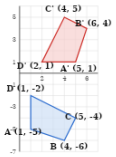
Find the (x,y) change that the given move between (x,y) coordinates A and B would be

$$\text{Point A} : (-3, 1)$$
$$\text{Point B} : (2, 5)$$

A (6,4)	B (4,5)
C (4,-5)	D (4,4)
E (-5,4)	F (5,4)

11

The quadrilateral ABCD is rotated 90° counter-clockwise about the origin to give quadrilateral A'B'C'D'. Which coordinate rule describes this rotation?



A (x, y) → (y, -x)	B (x, y) → (-x, -y)	C (x, y) → (-y, x)

12

A shape is rotated 180° about the origin. Which coordinate rule describes this rotation?

A
(x, y) → (y, -x)

B
(x, y) → (-x, -y)

C
(x, y) → (-y, x)

13

A rotation about the origin uses the coordinate rule (x, y) → (-x, -y). Which rotation does this represent?

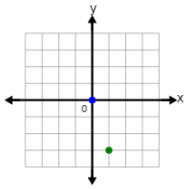
A
90° clockwise

B
270° clockwise

C
180°

14

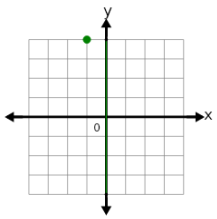
Rotate this point by 90° counter-clockwise about the origin



A (3,1)	B (1,-3)

15

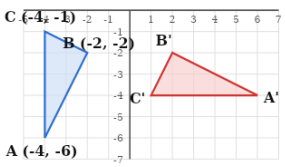
Reflect this point across the Y axis



A (1,4)	B (-4,-1)

16

The triangle ABC is rotated 270° clockwise about the origin to give triangle A'B'C'. What are the coordinates of C'?



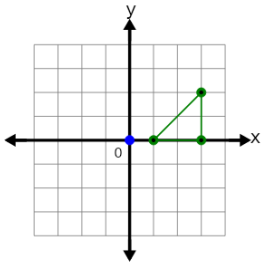
A (1, -4)	B (-1, -4)	C (1, 4)	D (-1, 4)

Name

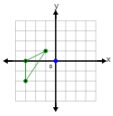
Describe transformations using coordinates

17

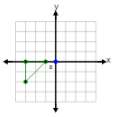
Rotate this shape by 180° clockwise about the origin



A



B



18

(2,0)

A

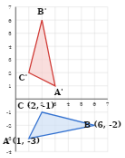
(1,2)

B

(2,-1)

19

The triangle ABC is rotated 270° clockwise about the origin using the rule (x, y) → (-y, x) to give triangle A'B'C'. What are the coordinates of B'?



A (-2, 6)

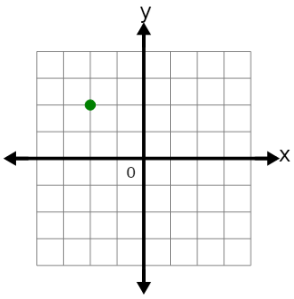
B (2, 6)

C (2, -6)

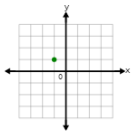
D (-2, -6)

20

Translate this point by (1,-1)



A



B