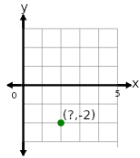


Describe transformations using coordinate rules

1

Complete the coordinates of the point by identifying the x value



A (3,-2)

B (-2,-2)

C (-2,2)

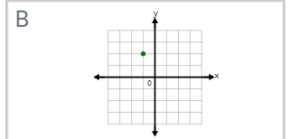
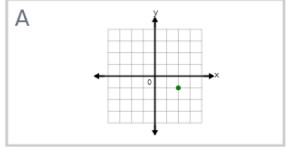
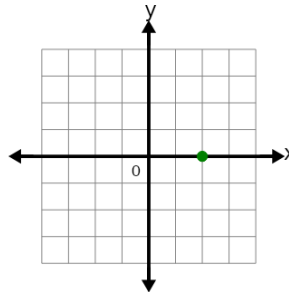
D (2,2)

E (2,-2)

F (2,-1)

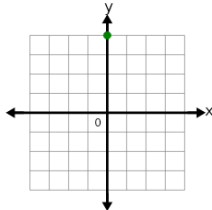
2

Translate this point by down 1



3

Translate this point by left 1



A (-4,1)

B (-1,4)

4

(1,2)

A

(-3,-1)

B

(1,3)

5

(2,-2)

A

(2,-3)

B

(3,2)

6

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

Point A : (5,2)

Point B : (3,0)

A (-2,-2)

B (-3,-2)

C (-2,-1)

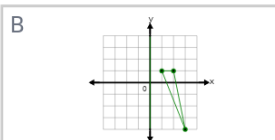
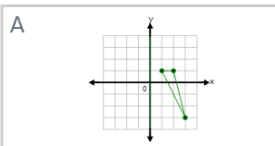
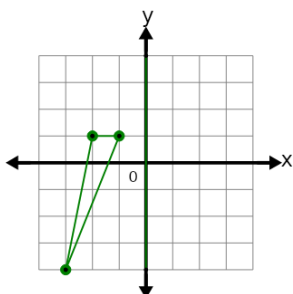
D (-2,-3)

E (2,-2)

F (-1,-2)

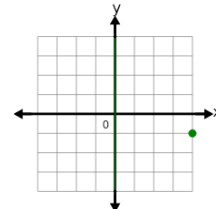
7

Reflect this shape across the Y axis



8

Reflect this point across the Y axis



A (-1,4)

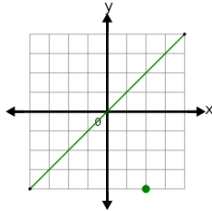
B (-4,-1)



Describe transformations using coordinate rules

9

Reflect this point across the diagonal

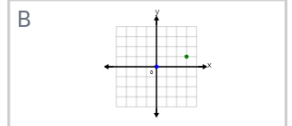
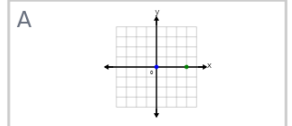
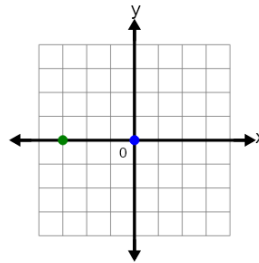


A (4,-2)

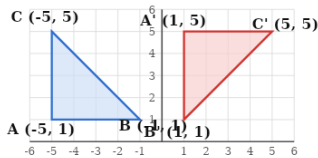
B (-4,2)

10

Rotate this point by 180° clockwise about the origin

**11**

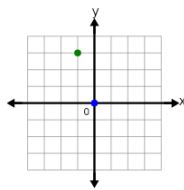
The triangle ABC is rotated 270° counter-clockwise about the origin to give triangle A'B'C'. Which coordinate rule describes this rotation?

A $(x, y) \rightarrow (-y, x)$ B $(x, y) \rightarrow (-x, -y)$ C $(x, y) \rightarrow (y, -x)$ **12**

A shape is rotated 270° counter-clockwise about the origin. Which coordinate rule describes this rotation?

A $(x, y) \rightarrow (-y, x)$ B $(x, y) \rightarrow (-x, -y)$ C $(x, y) \rightarrow (y, -x)$ **13**

Rotate this point by 90° clockwise about the origin



A (-3,-1)

B (3,1)

14

(-1,0)

A

(1,1)

B

(1,-1)

15

(0,-4)

A

(4,-0)

B

(0,4)

16

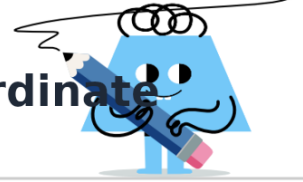
(1,1)

A

(-1,1)

B

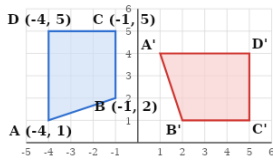
(-1,-1)



Describe transformations using coordinate rules

17

The quadrilateral ABCD is rotated 270° counter-clockwise about the origin using the rule $(x, y) \rightarrow (y, -x)$ to give quadrilateral A'B'C'D'. What are the coordinates of A'?



A (-1, -4)

B (1, 4)

C (1, -4)

D (-1, 4)

18 $(-4, -3)$

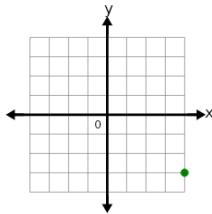
A

 $(4, -3)$

B

 $(-4, -3)$ **19**

Translate this point by $(-1, -1)$



A (3, -4)

B (4, 3)

20 $(-2, 0)$

A

 $(3, 1)$

B

 $(-3, 1)$