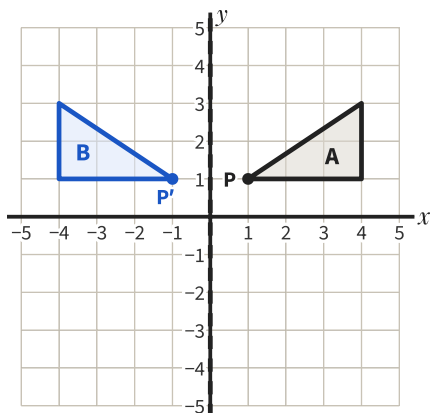


Reflecting Shapes

ANSWERS

1

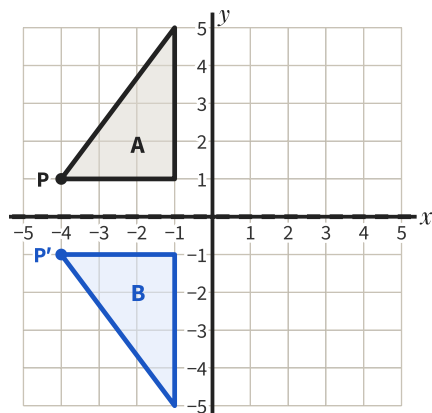
Reflect A in the y -axis.



P' $(-1, 1)$

2

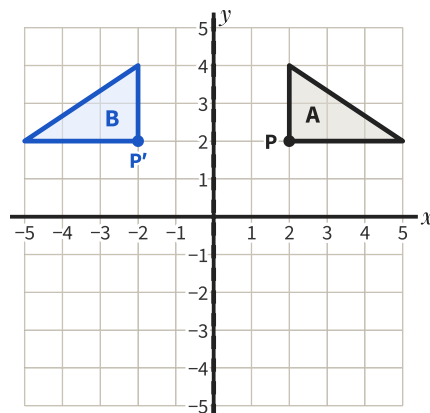
Reflect A in the x -axis.



P' $(-4, -1)$

3

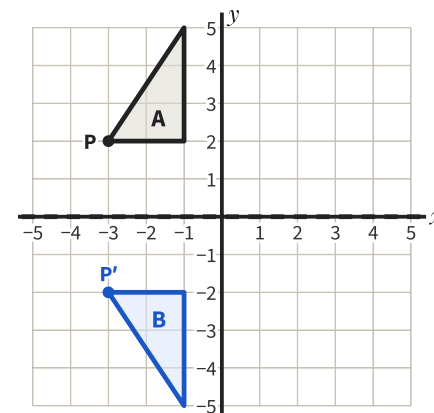
Reflect A in the y -axis.



P' $(-2, 2)$

4

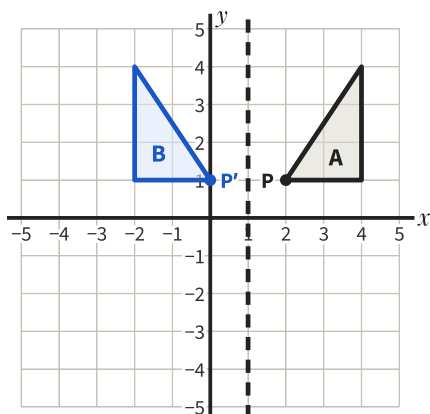
Reflect A in the x -axis.



P' $(-3, -2)$

5

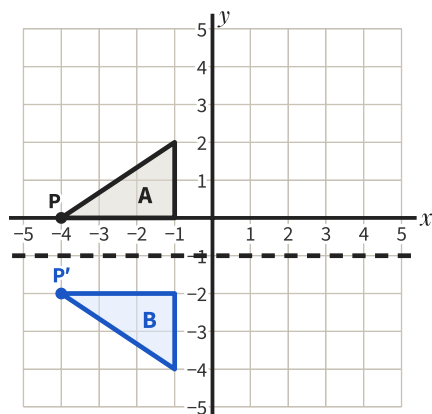
Reflect A in the line $x = 1$.



P' $(0, 1)$

6

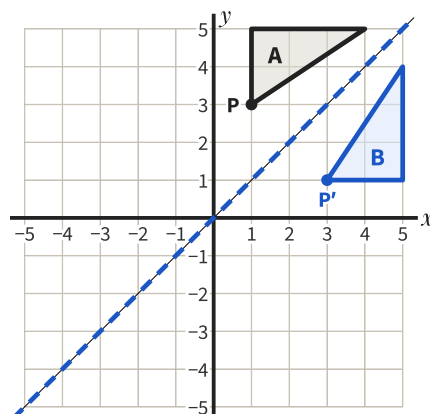
Reflect A in the line $y = -1$.



P' $(-4, -2)$

7

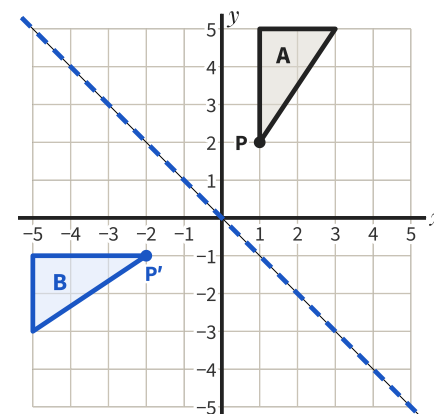
Reflect A in the line $y = x$.



P' $(3, 1)$

8

Reflect A in the line $y = -x$.



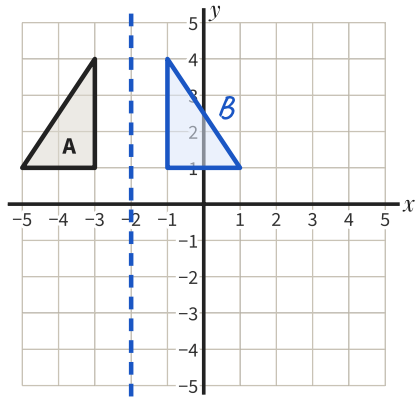
P' $(-2, -1)$

Reflecting Shapes *further practice*

ANSWERS

9

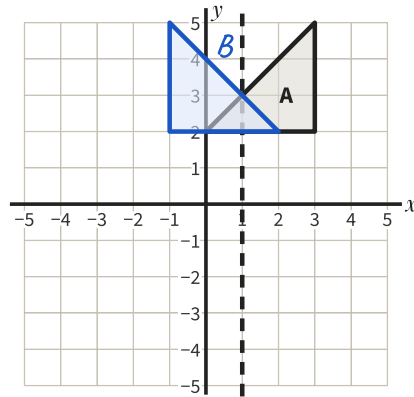
Reflect shape A in the line $x = -2$.
Label the image B.



Corners $(1, 1), (-1, 1), (-1, 4)$

10

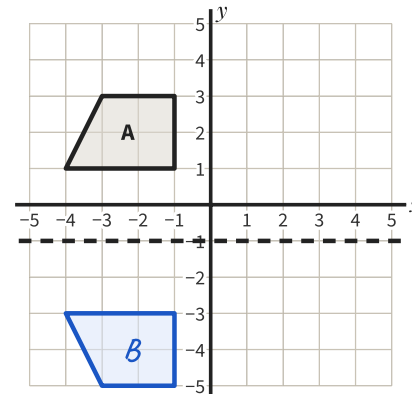
Reflect shape A in the line $x = 1$.
Label the image B.



Corners $(2, 2), (-1, 2), (-1, 5)$

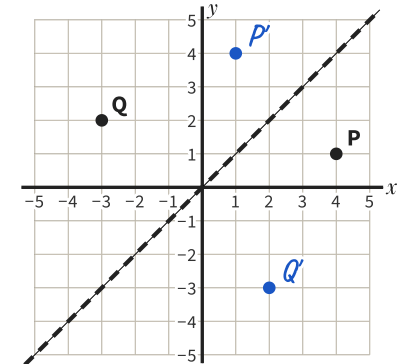
11

A garden plan shows a flower bed A and a straight path along the line $y = -1$. A second bed is the reflection of A in the path. Draw it.



12

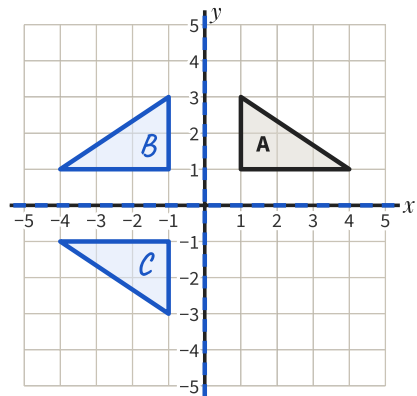
Reflect the points P and Q in the line $y = x$. Write the coordinates of their images.



Images $P'(1, 4), Q'(2, -3)$

13

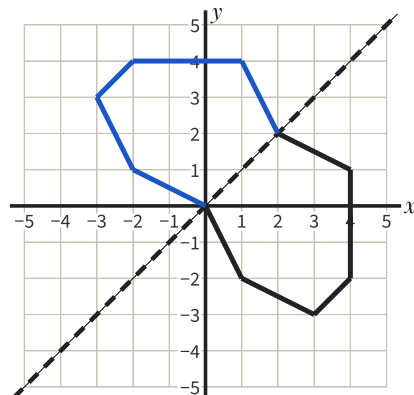
Reflect shape A in the y -axis to give B.
Then reflect B in the x -axis to give C.



C $(-1, -1), (-4, -1), (-1, -3)$

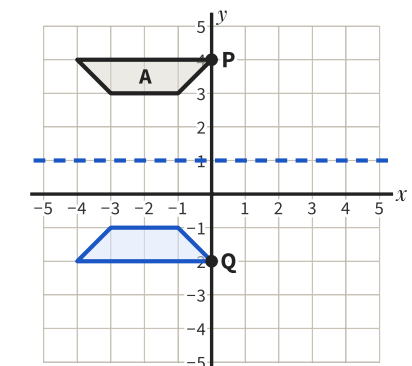
14

A pond is designed so that its outline is symmetrical about the line $y = x$. Half of the outline is drawn. Complete the outline.



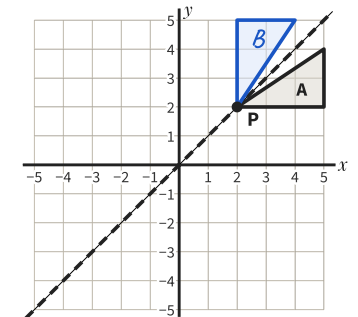
15

A toy boat A is on a table. A mirror stands upright along a straight line on the table. The reflection of corner P is at Q. Draw the reflection of the whole boat.



16

Ben says that when shape A is reflected in the line $y = x$, corner P does not move. Is Ben right? Explain.



P is on the mirror line, so it stays put

Answer Yes