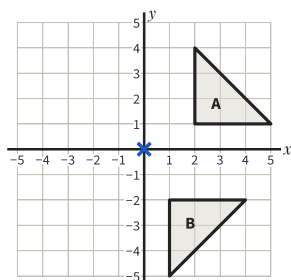


1

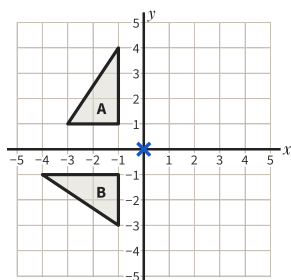
Describe fully the single transformation that maps A onto B.



Rotation 90° clockwise
about $(0, 0)$

2

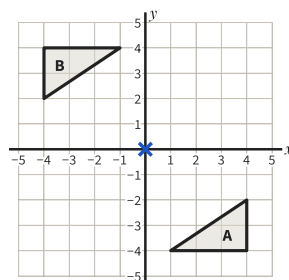
Describe fully the single transformation that maps A onto B.



Rotation 90° anticlockwise
about $(0, 0)$

3

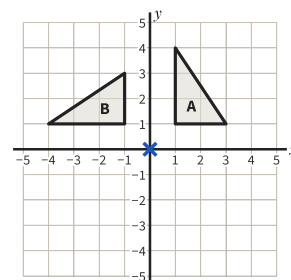
Describe fully the single transformation that maps A onto B.



Rotation 180°
about $(0, 0)$

4

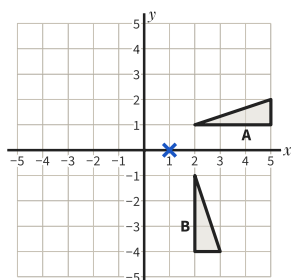
Describe fully the single transformation that maps A onto B.



Rotation 90° anticlockwise
about $(0, 0)$

5

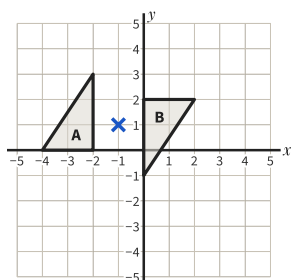
Describe fully the single transformation that maps A onto B.



Rotation 90° clockwise
about $(1, 0)$

6

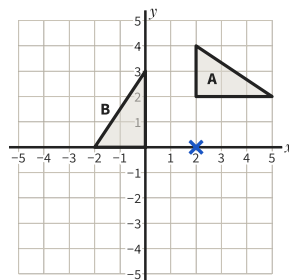
Describe fully the single transformation that maps A onto B.



Rotation 180°
about $(-1, 1)$

7

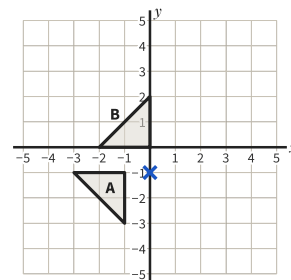
Describe fully the single transformation that maps A onto B.



Rotation 90° anticlockwise
about $(2, 0)$

8

Describe fully the single transformation that maps A onto B.

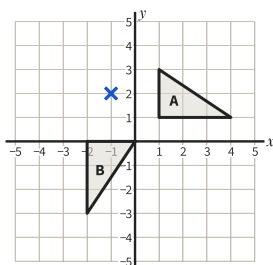


Rotation 90° clockwise
about $(0, -1)$

Describing Rotations further practice

9

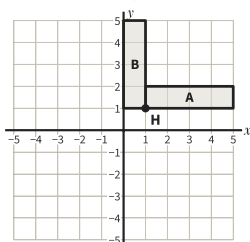
Describe fully the single transformation that maps A onto B.



Rotation 90° clockwise
about $(-1, 2)$

10

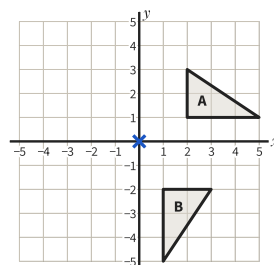
On this plan, door A opens to B by turning about its hinge H. Describe fully the single transformation.



Rotation 90° anticlockwise
about $(1, 1)$

11

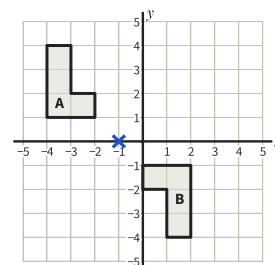
Describe fully the single transformation that maps B onto A.



Rotation 90° anticlockwise
about $(0, 0)$

12

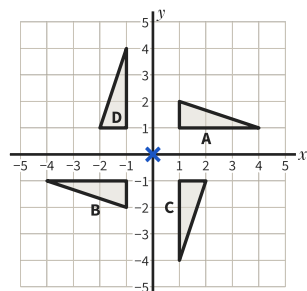
In a puzzle game, piece A is turned to B. Describe fully the single transformation.



Rotation 180°
about $(-1, 0)$

13

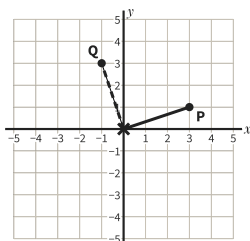
Which shape is the image of A after a rotation 90° clockwise about $(0, 0)$?



Answer C

14

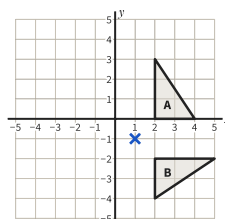
A robot arm turns about the point $(0, 0)$. The tip of the arm moves from P to Q. Describe fully this rotation.



Rotation 90° anticlockwise
about $(0, 0)$

15

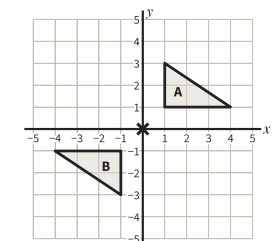
Raj describes this transformation as 'Rotation 90° clockwise'. What has Raj missed? Write a full description.



the centre of rotation
Rotation 90° clockwise about $(1, -1)$

16

Tom says that for a rotation of 180° , you do not need to say clockwise or anticlockwise. Is Tom right? Explain.



Yes: half a turn clockwise or anticlockwise ends in the same place