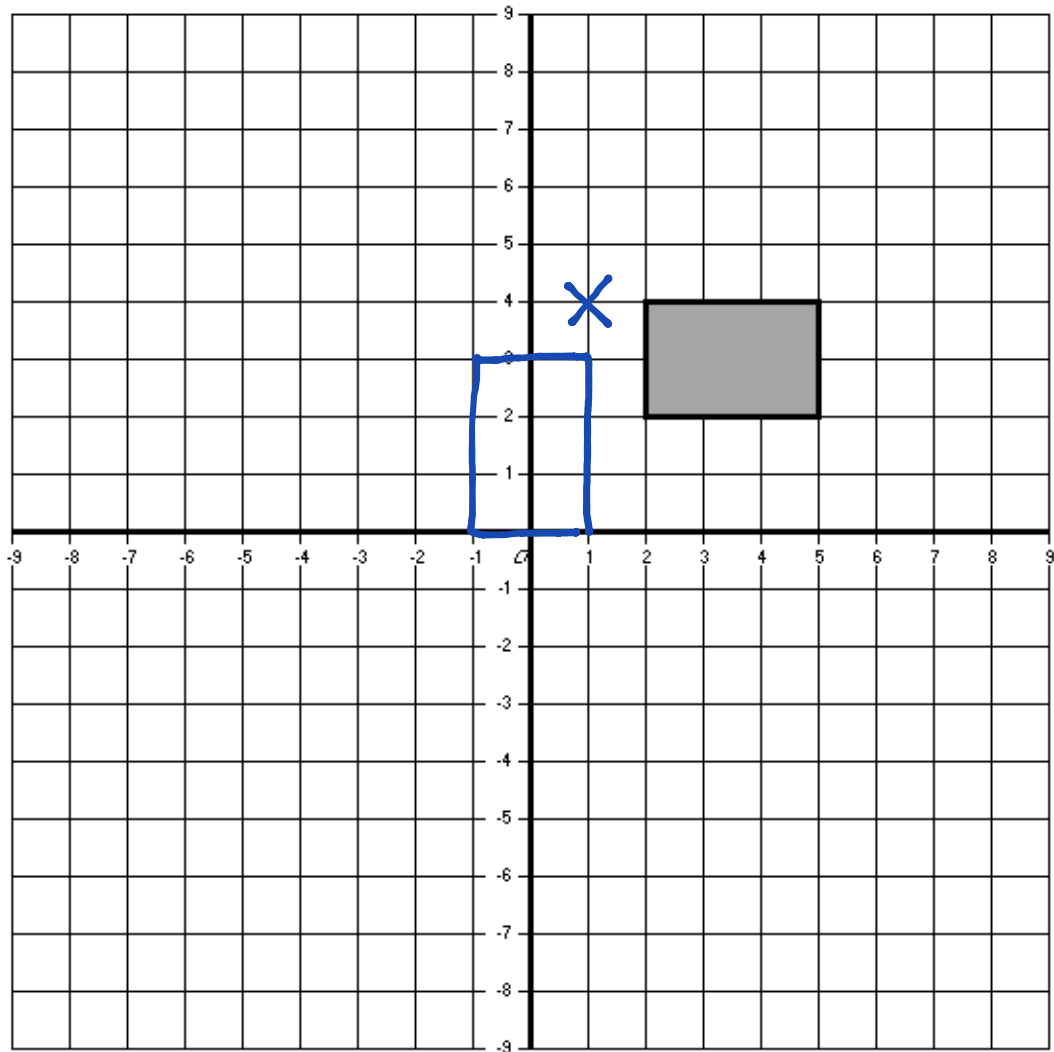


On the grid, rotate triangle **A** 180° about **O**.

Label your new triangle **B**.

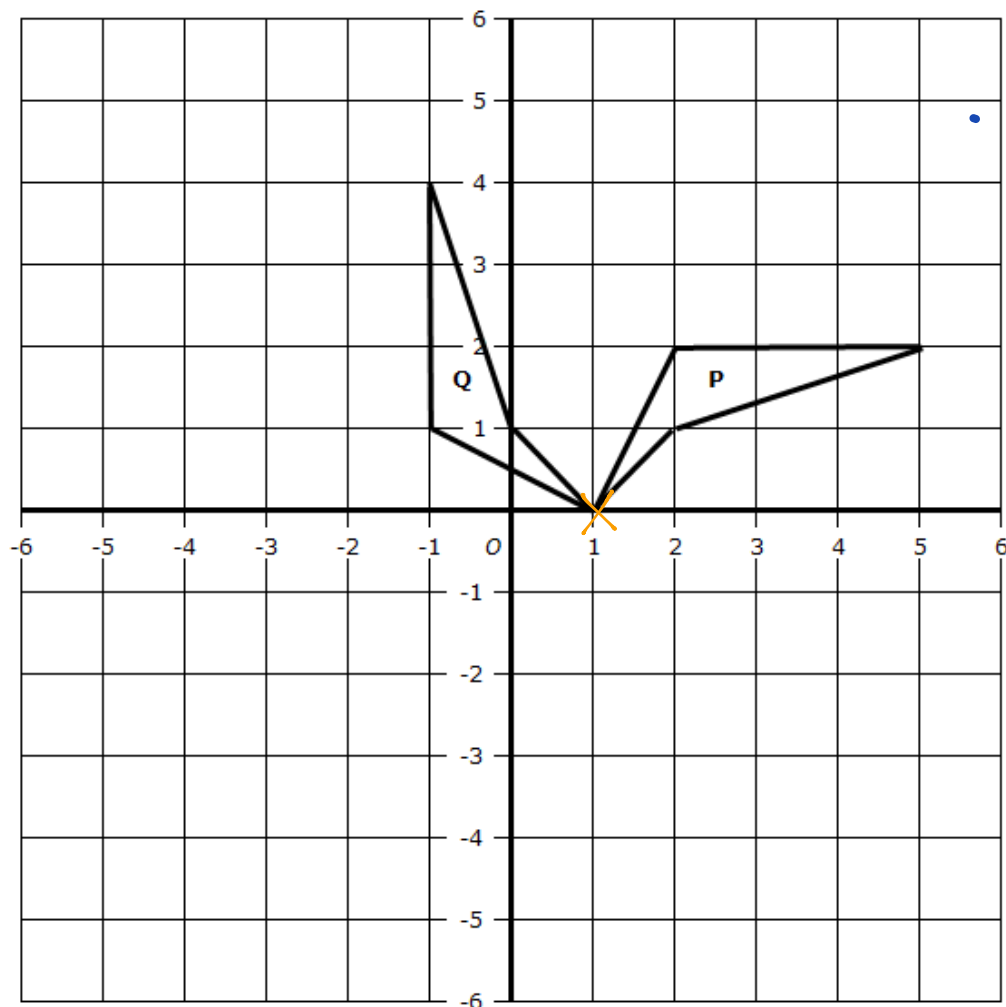
(2)

Rotate the rectangle through 90° clockwise about the point $(1,4)$



(2)

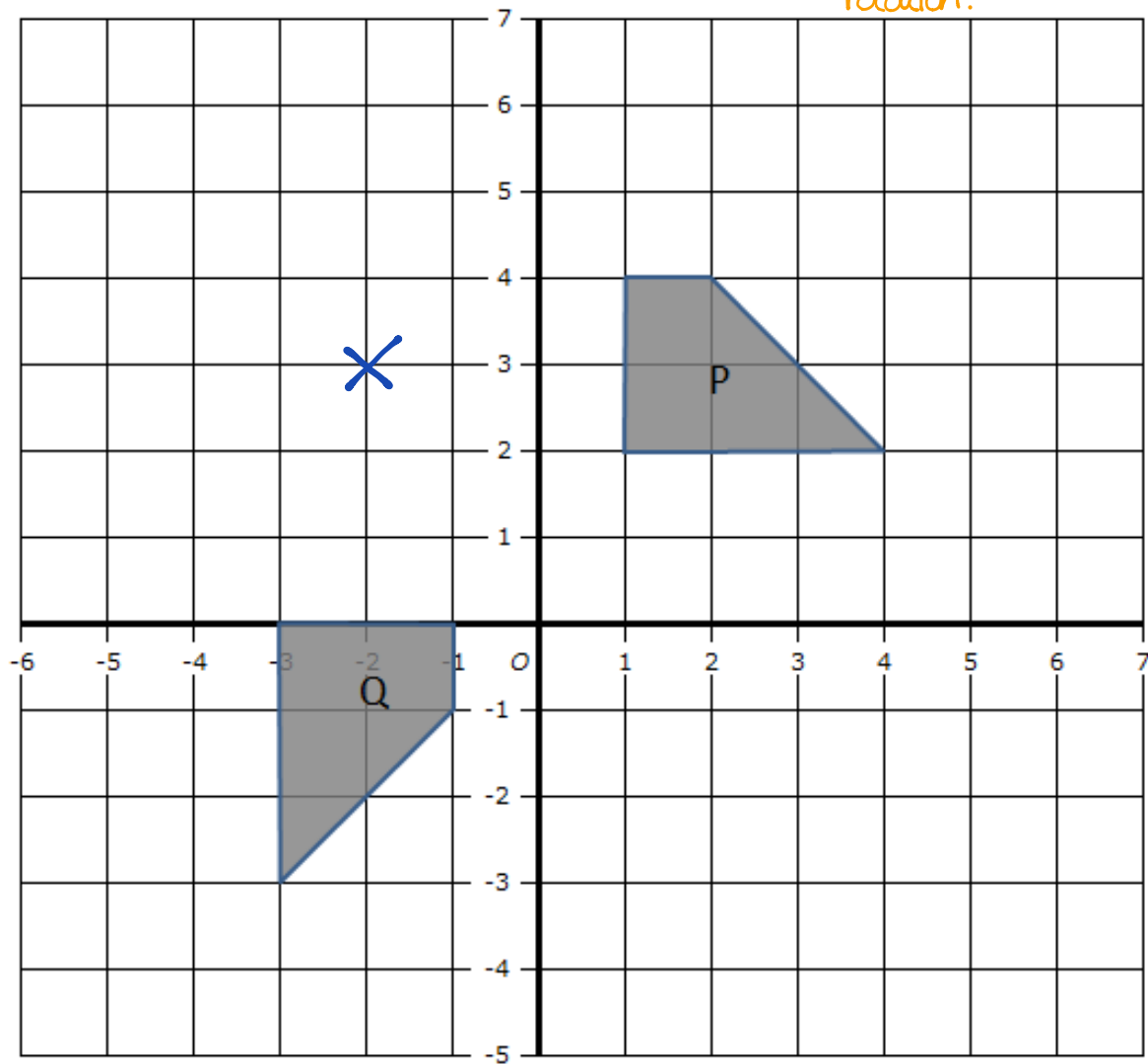
Jonah drew shape P on a square grid. He then transformed shape P to shape Q.



Describe fully the single transformation that maps shape **P** onto shape **Q**.

Rotation, 90° anti-clockwise, centre of rotation (1, 0) (3)

use tracing paper and keep trying different centres of rotation.



Describe fully the transformation that will map shape **P** onto shape **Q**.

Rotation, 90° clockwise, centre of rotation $(-2, 3)$

(3)

this suggest 3 pieces of information

