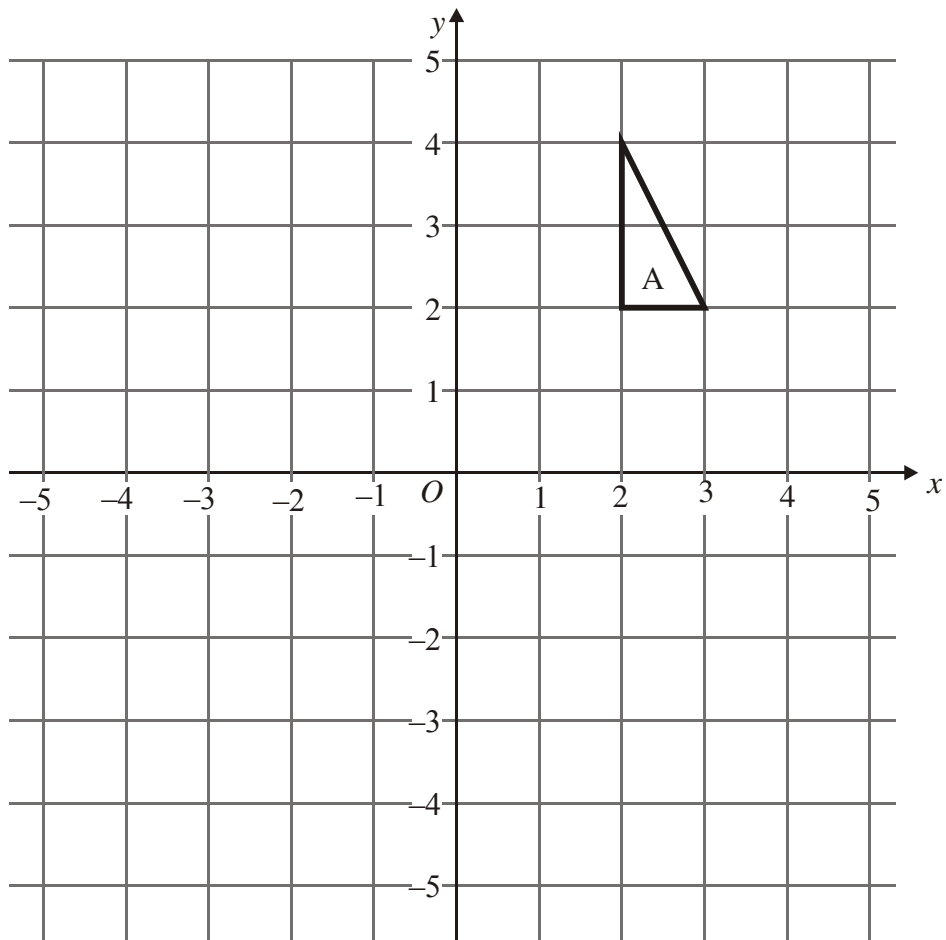


1.

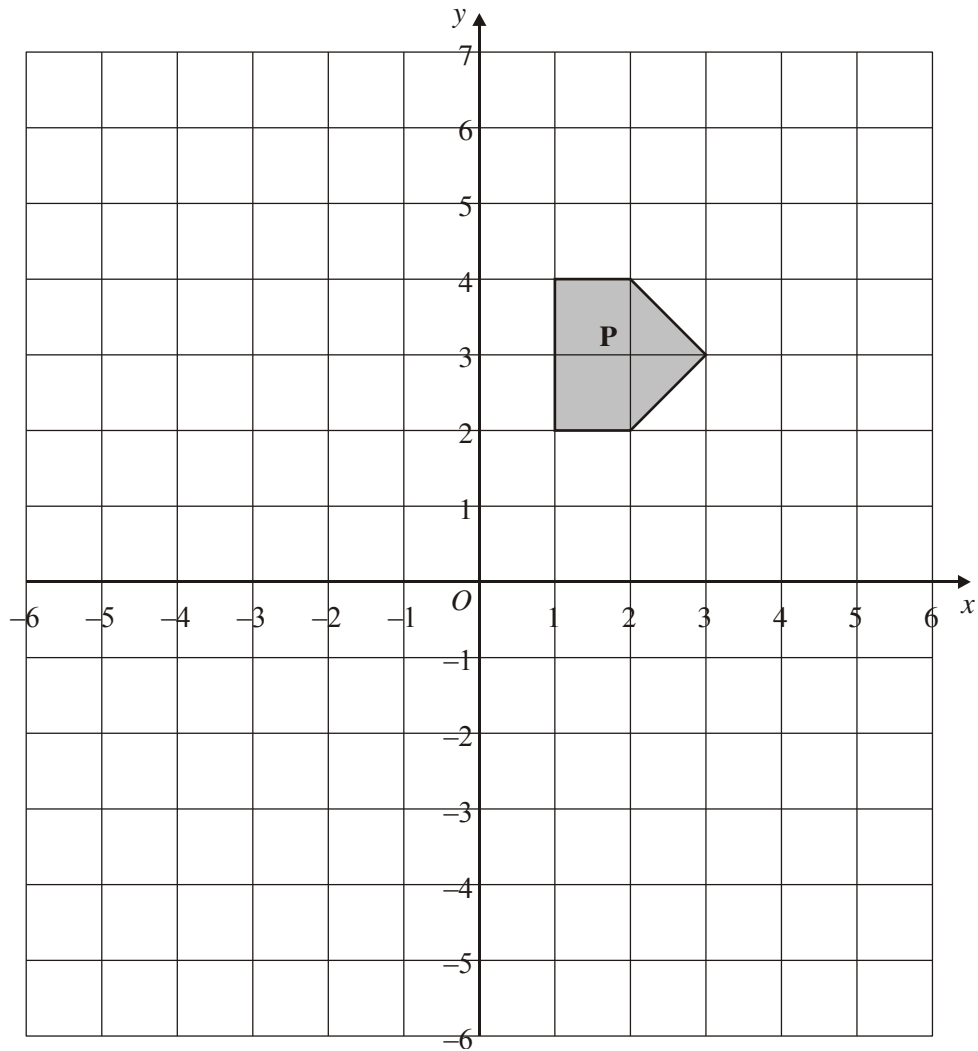


On the grid, rotate triangle A  $180^\circ$  about O.

Label your new triangle B.

(2)  
(Total 2 marks)

2.



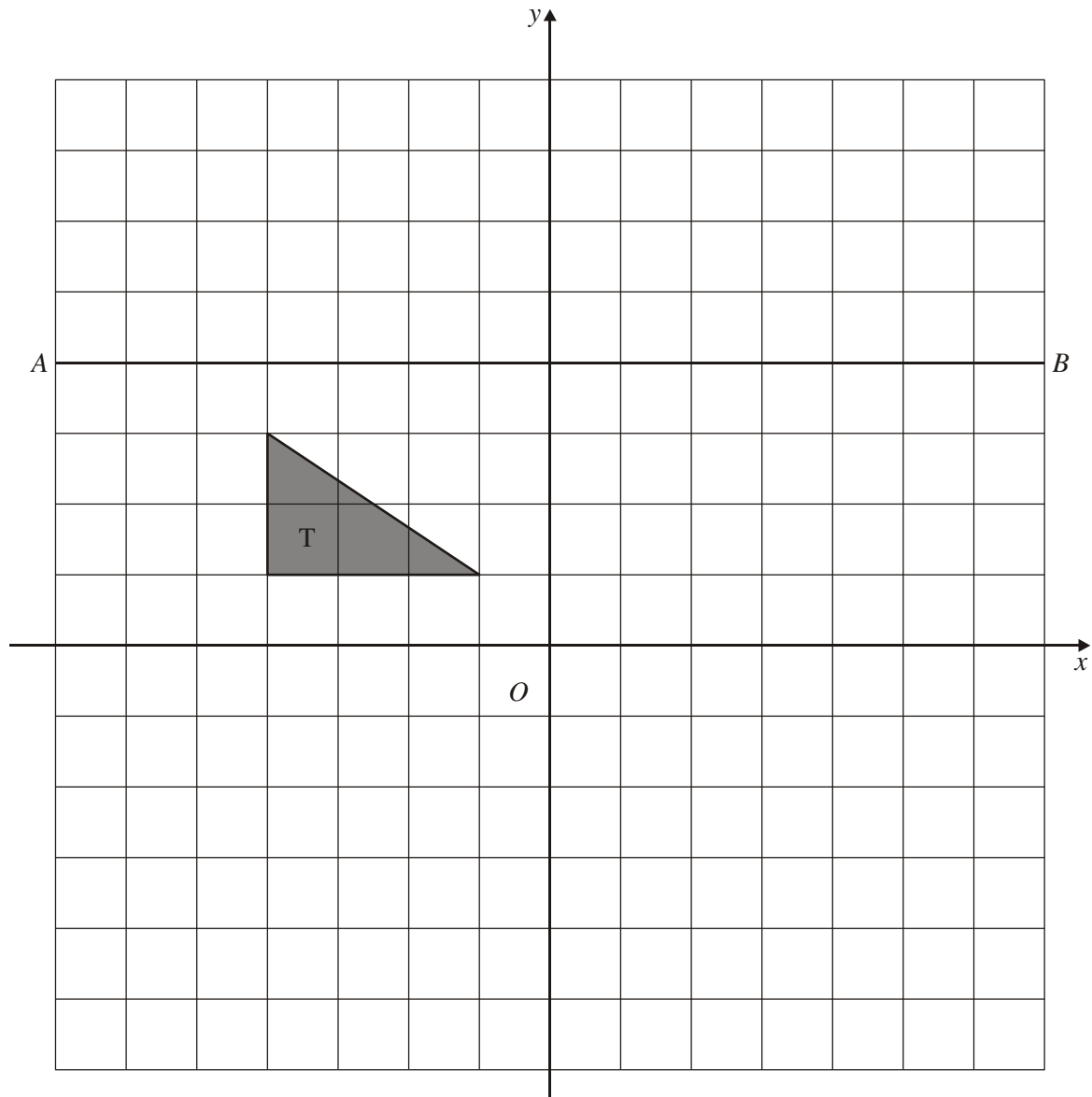
On the grid, rotate the shaded shape **P** one quarter turn anticlockwise about *O*.

Label the new shape **Q**.

(3)

(Total 3 marks)

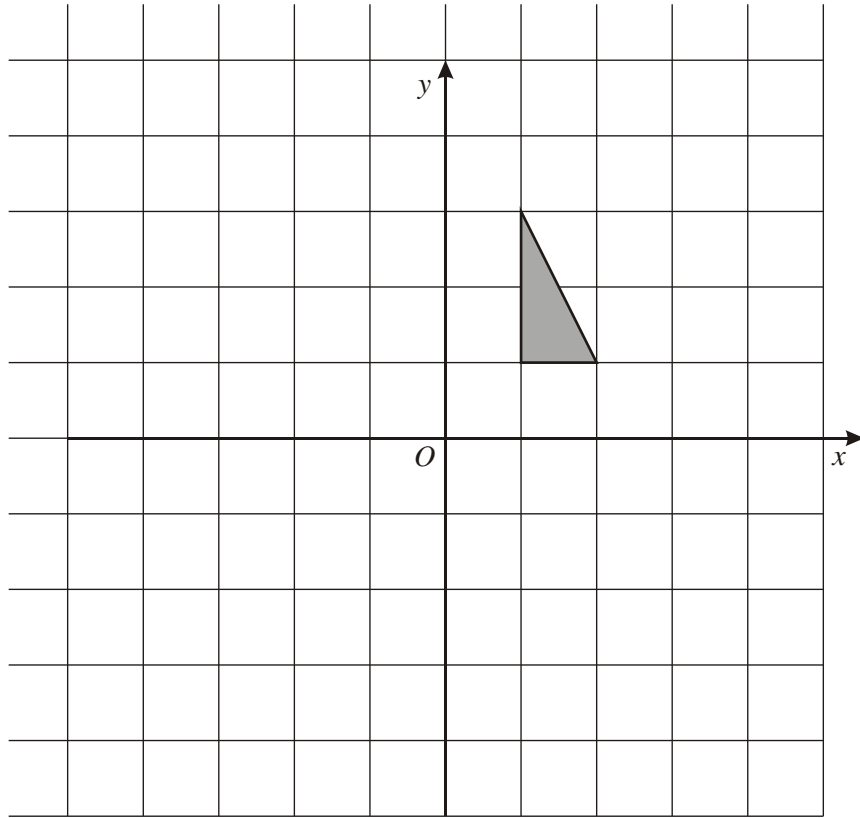
3.



Rotate the triangle a quarter turn anticlockwise, centre  $O$ .

**(Total 2 marks)**

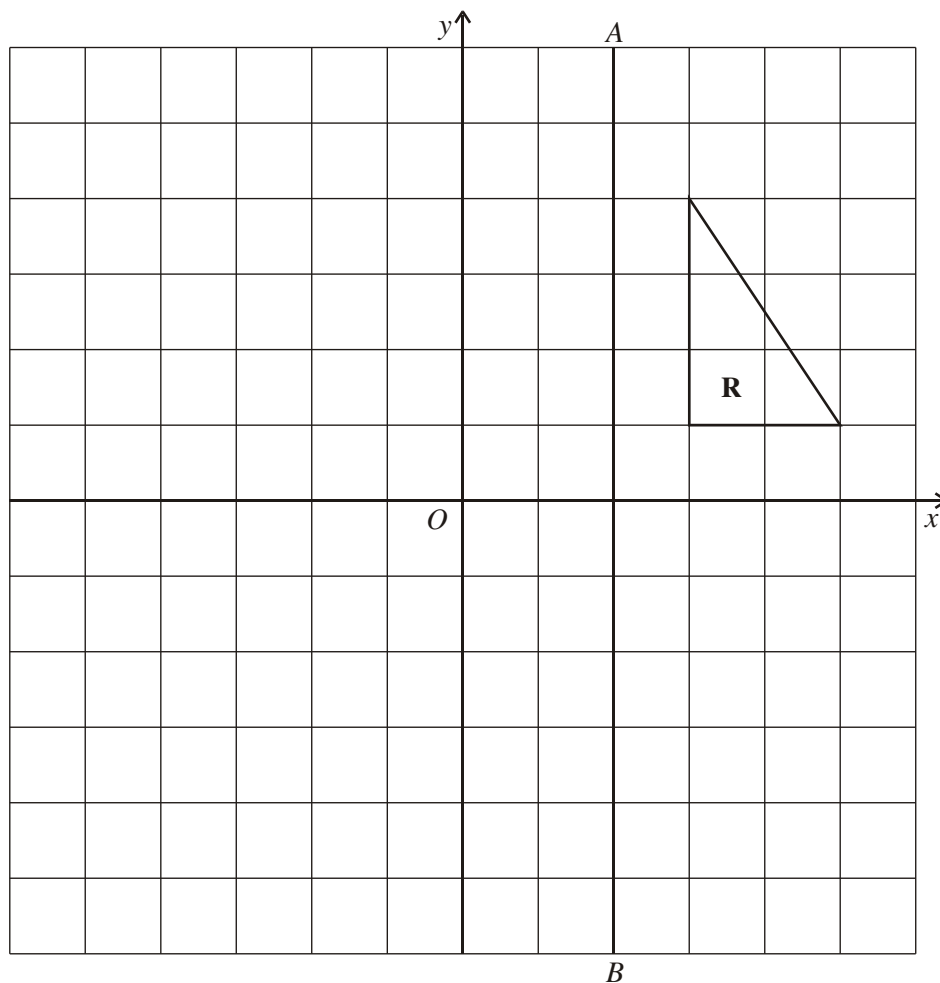
4.



Rotate the triangle a half turn about the point  $O$ .

**(Total 2 marks)**

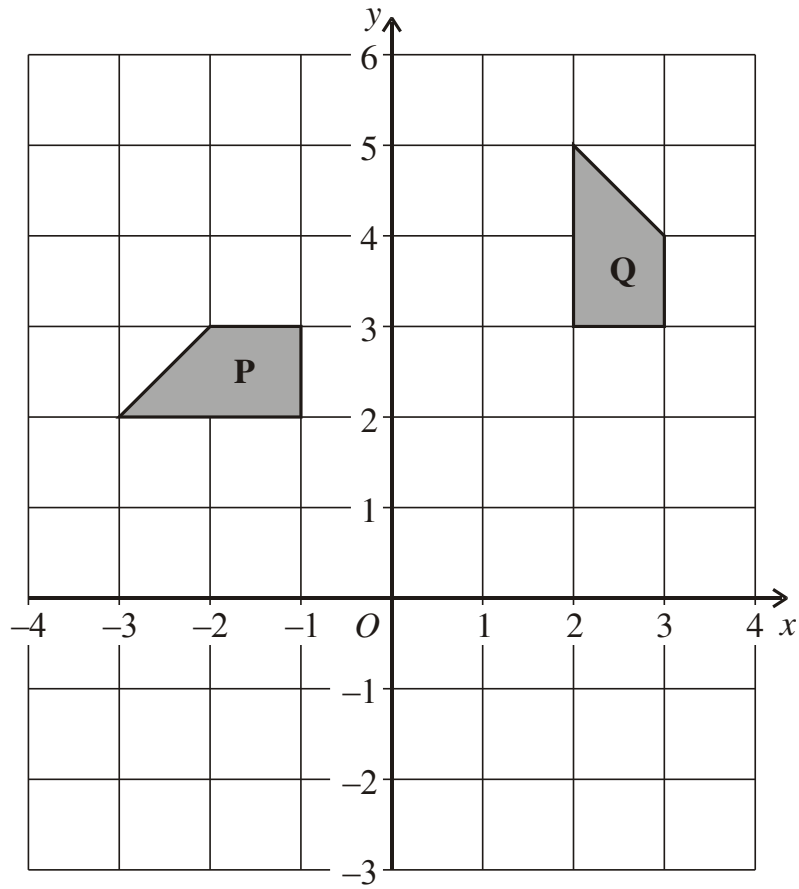
5.



Rotate triangle **R** a half turn about the point  $O$ .  
Label the new triangle **T**.

(2)  
(Total 2 marks)

6.



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

.....

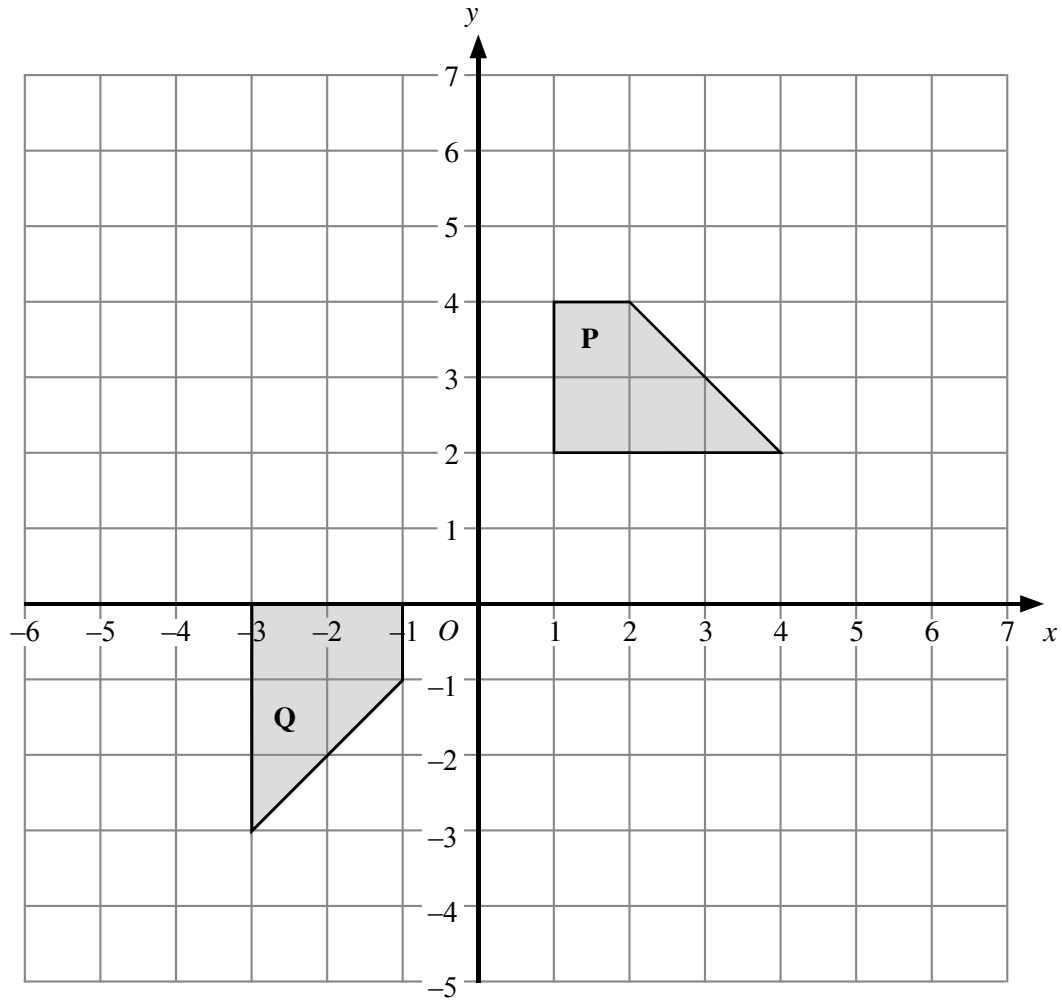
.....

.....

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**(Total 3 marks)**

7.



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

.....

.....

.....

**(Total 3 marks)**