

# Transformations-Rotations

## Question Paper

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Transformations-Rotations
Grade Level	Grade 3
Booklet	Question Paper

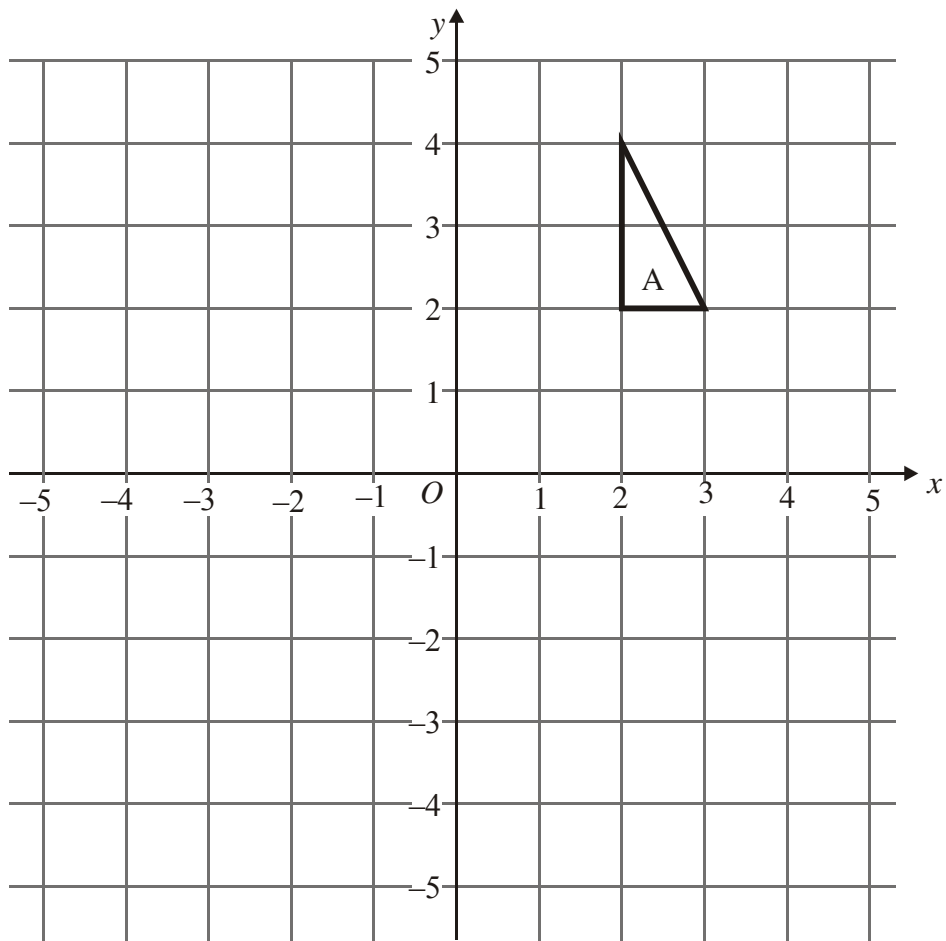
**Time Allowed:** 21 minutes

**Score:** /17

**Percentage:** /100

**Grade Boundaries:**

1.

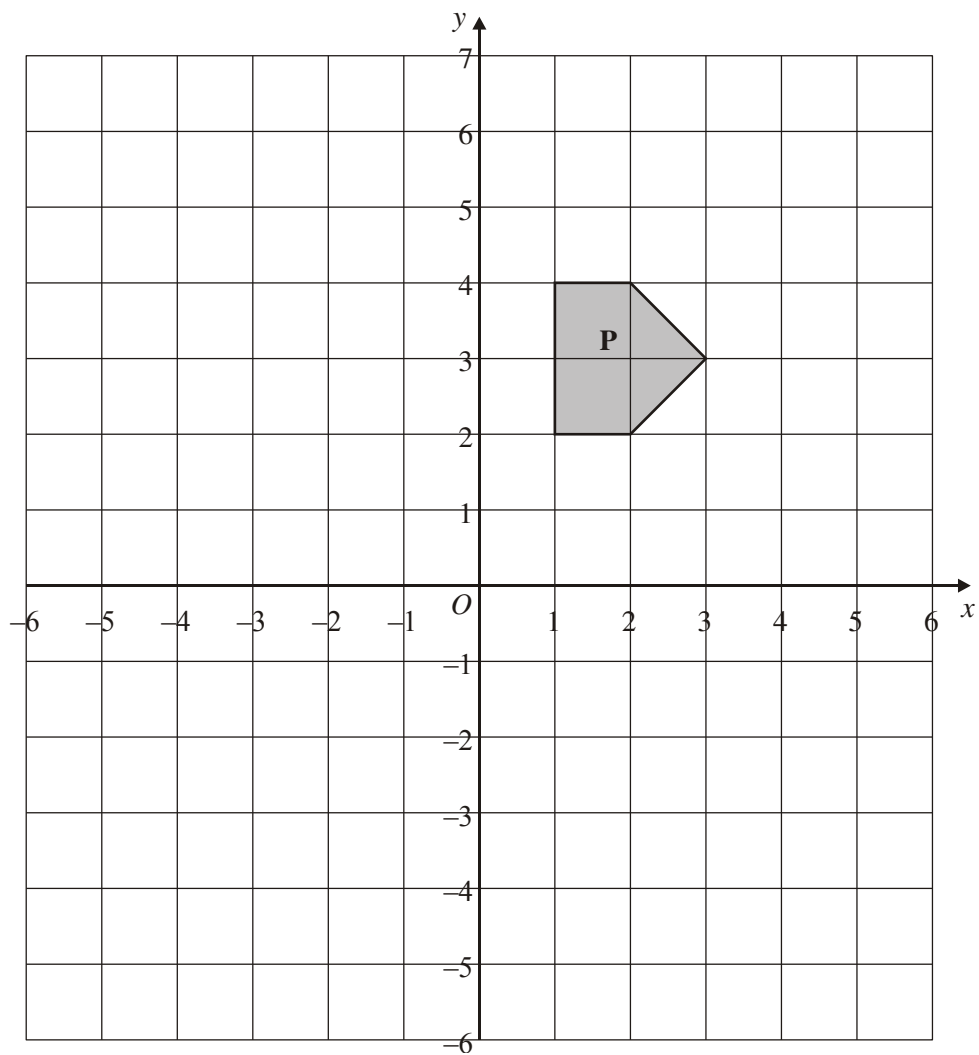


On the grid, rotate triangle **A**  $180^\circ$  about *O*.

Label your new triangle **B**.

(2)  
(Total 2 marks)

2.



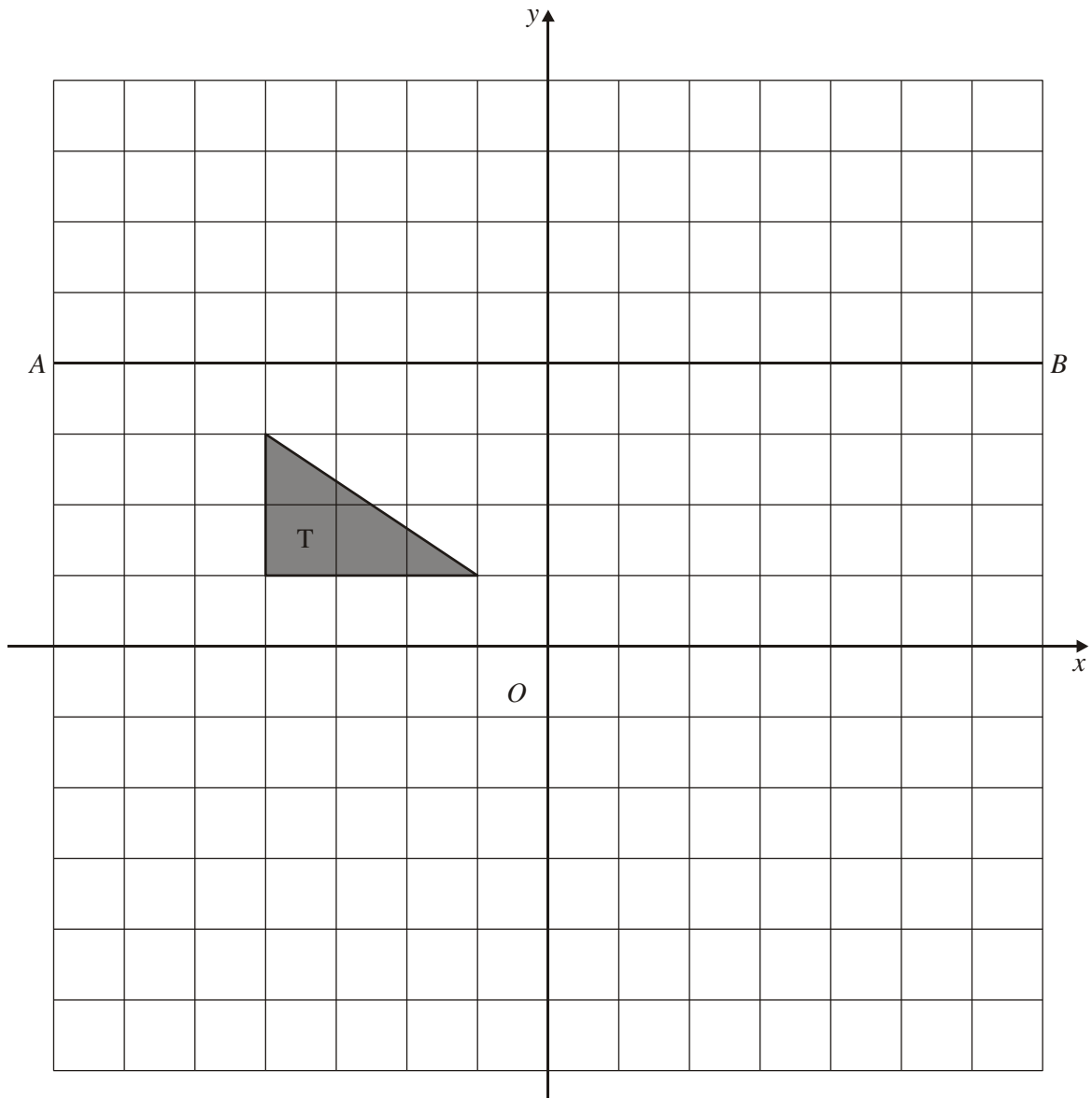
On the grid, rotate the shaded shape **P** one quarter turn anticlockwise about *O*.

Label the new shape **Q**.

(3)

(Total 3 marks)

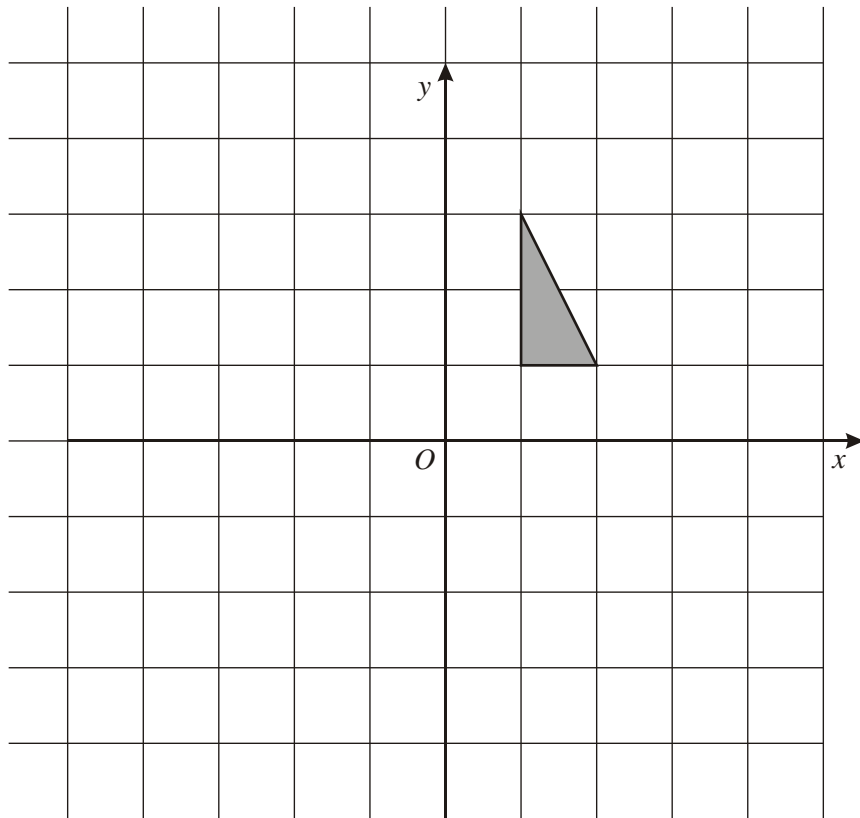
3.



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

**(Total 2 marks)**

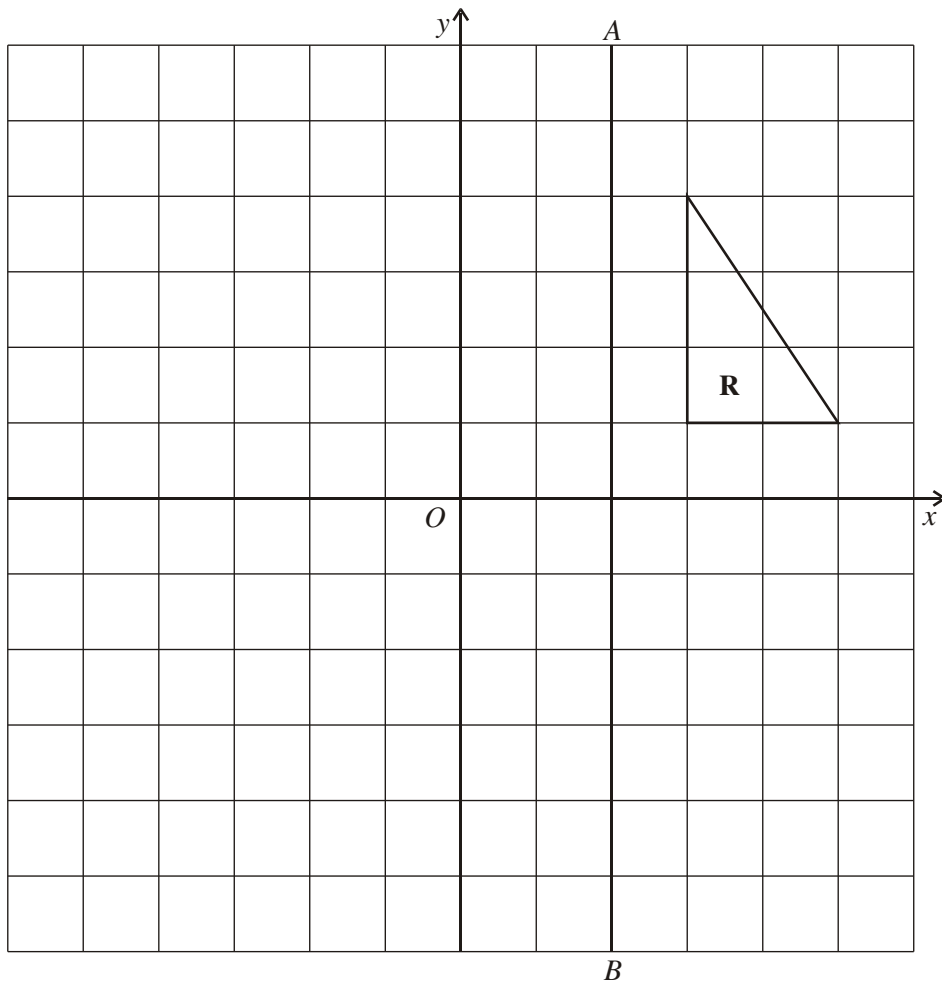
4.



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

**(Total 2 marks)**

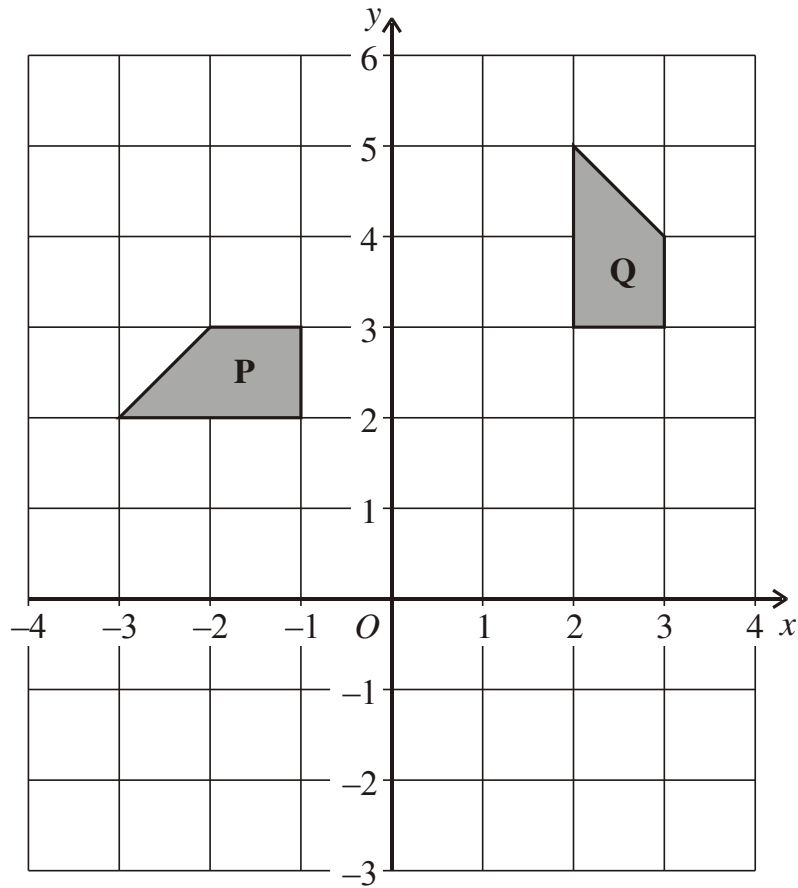
5.



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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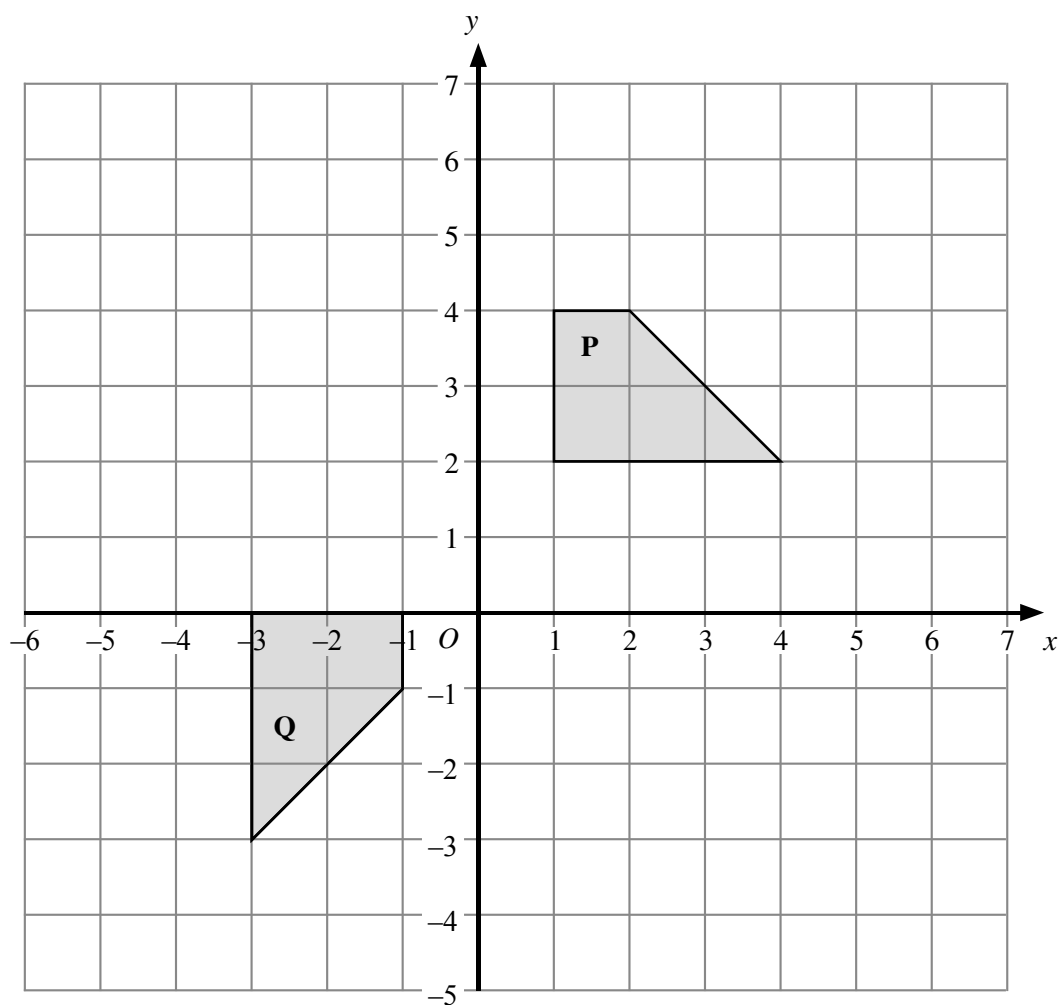
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**(Total 3 marks)**

7.



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

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**(Total 3 marks)**