



Education Consultancy

Edexcel GCSE Mathematics ROTATIONS

Materials Required:

- Pen
- HB Pencil
- Ruler (in centimetres and millimetres)
 - Protractor
 - Compass

Information:

- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question
- Questions marked with an asterisk (*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

Instructions:

- Use a black ink pen to answer all questions
 - Fill your name in the section below
- Answer the questions in the spaces provided
 - Show your working out for all answers

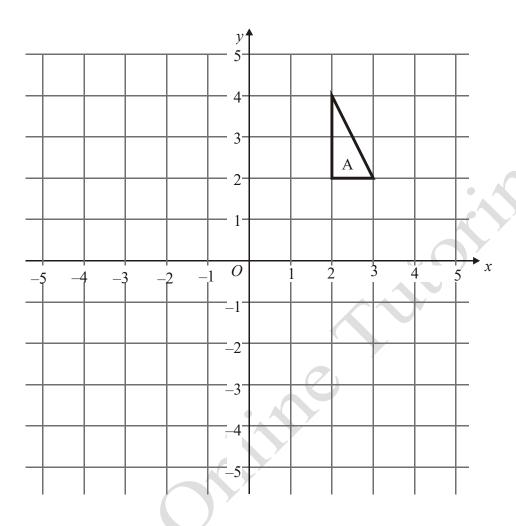
Advice:

- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question
- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

NO CALCULATOR ALLOWED

NAME:	

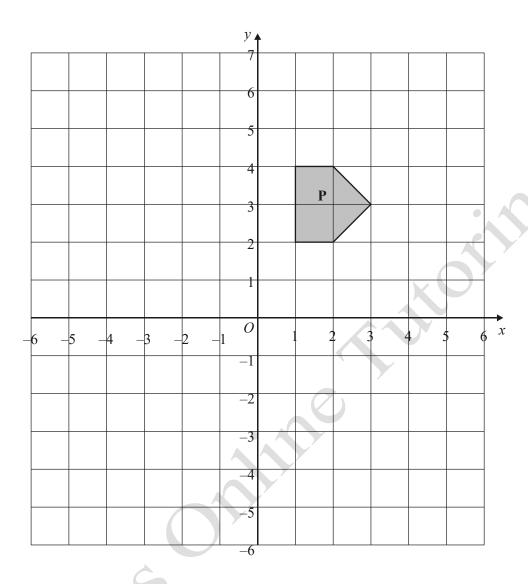
1.



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

Label your new triangle B.

(2) (Total 2 marks)



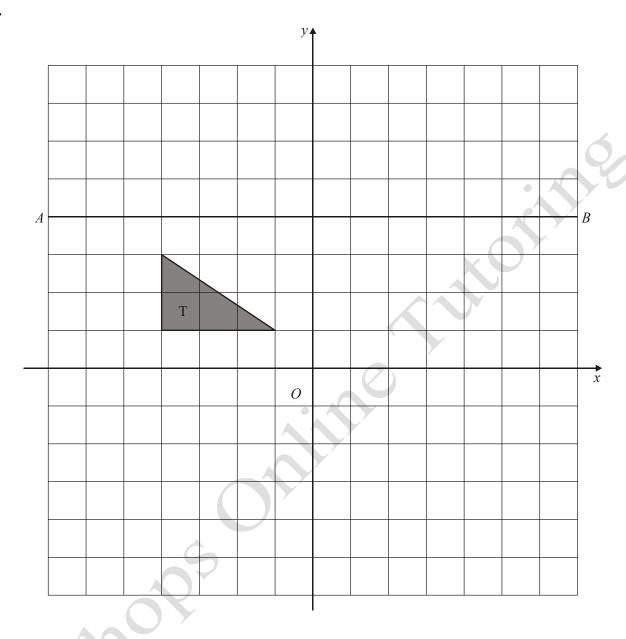
On the grid, rotate the shaded shape P one quarter turn anticlockwise about O.

Label the new shape **Q**.

(3)

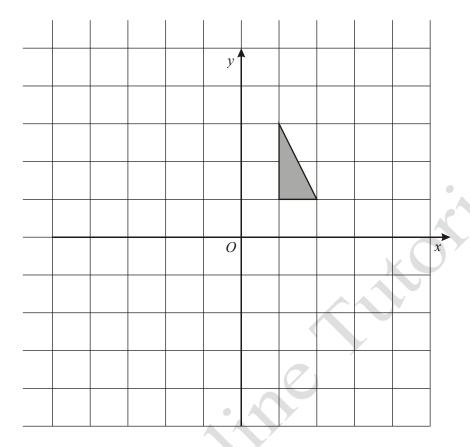
(Total 3 marks)

3.



Rotate the triangle a quarter turn anticlockwise, centre O.

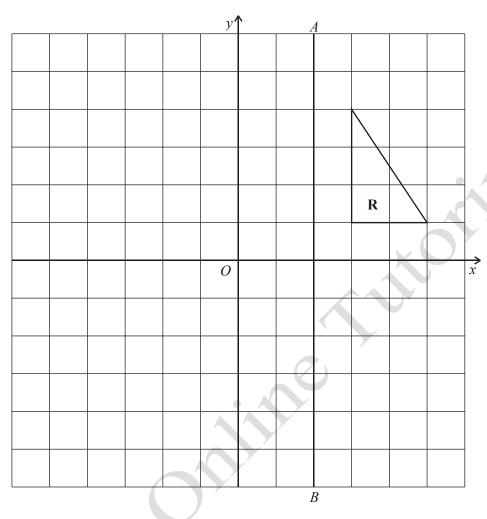
(Total 2 marks)



Rotate the triangle a half turn about the point O.

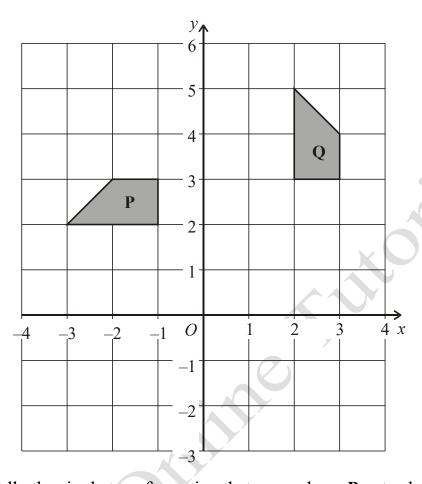
(Total 2 marks)

5.

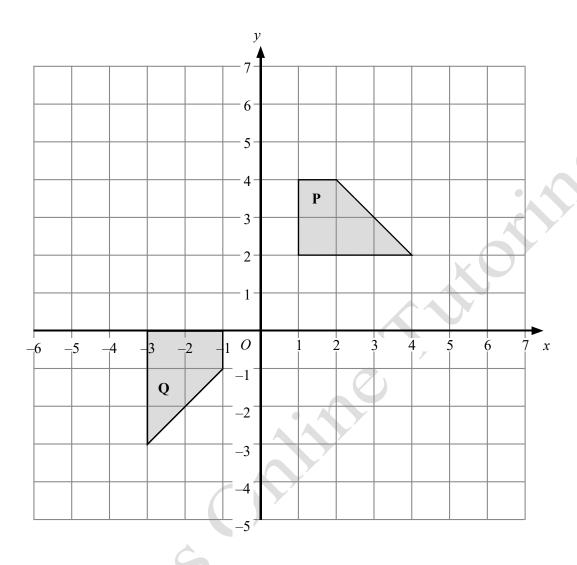


Rotate triangle \mathbf{R} a half turn about the point O. Label the new triangle \mathbf{T} .

(2) (Total 2 marks)



Describe fully the single transformation that maps shape \mathbf{P} onto shape \mathbf{Q} .	
(Total 3 mar	·ks)



Describe fully the single transformation that will	ll map shape P onto shape Q
A A O Y	
	•••••

(Total 3 marks)