

Name:

Date:

# Transformations: Reflections

## GCSE

Edexcel

Mathematics

Grade (9-1)

Mark

Score (%)

<hr/> <b>23</b>
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### Materials

For this paper you must have:

- Ruler
- Pencil, Rubber, Protractor and Compass
- Scientific calculator, which you are expected to use when appropriate

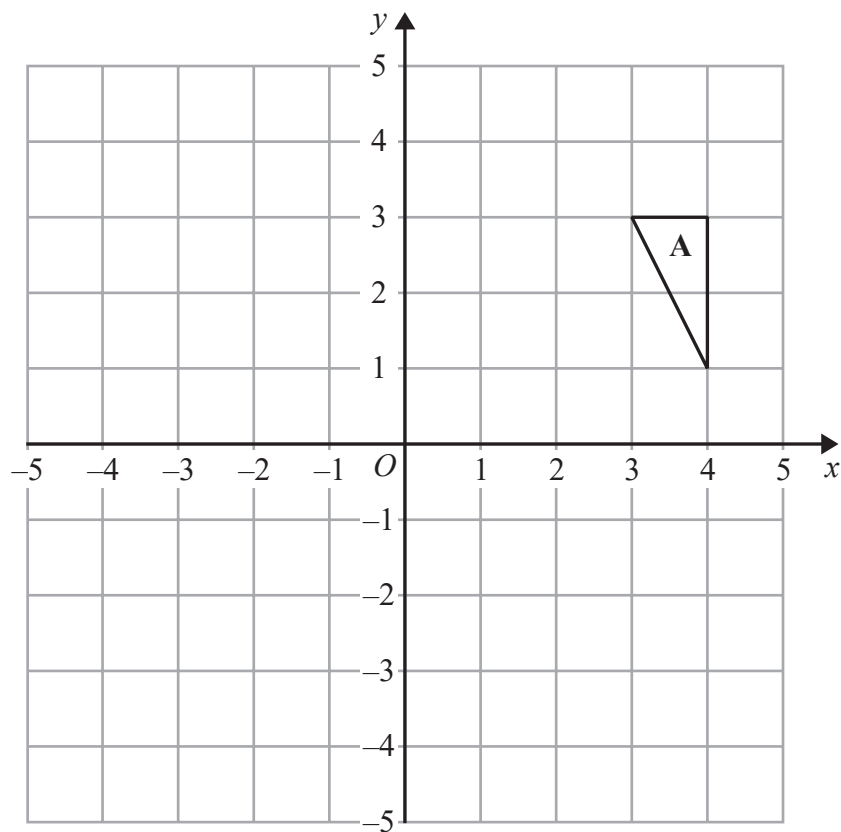
### Instructions

- Answer all questions
- Answer questions in the space provided
- All working must be shown
- Do all rough work in this book. Cross out any rough work you don't want to be marked

### Information

- The marks for the questions are shown in brackets

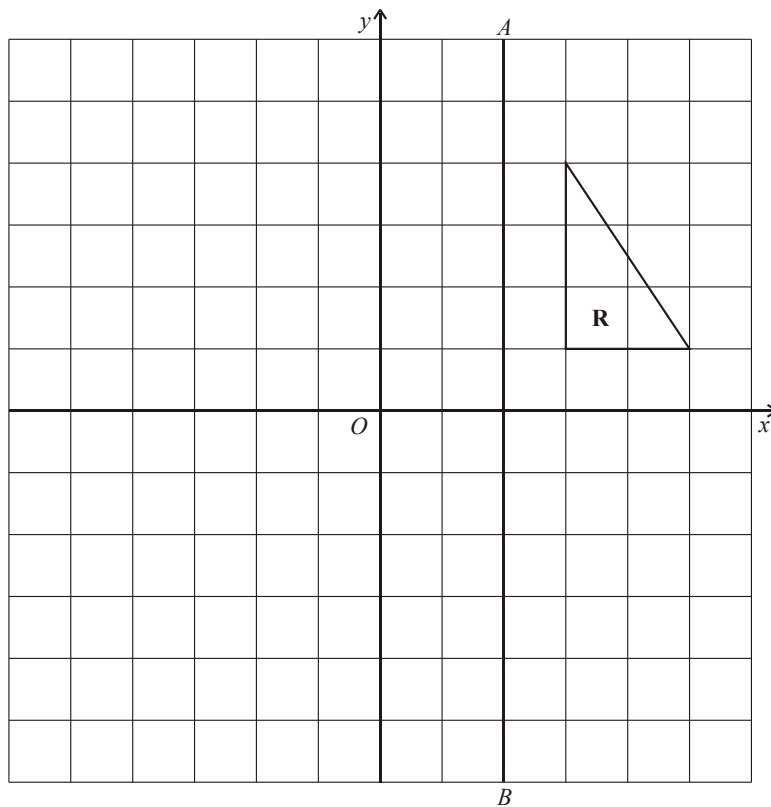
1



Reflect triangle **A** in the  $x$  axis.

(Total for question 1 is 2 marks)

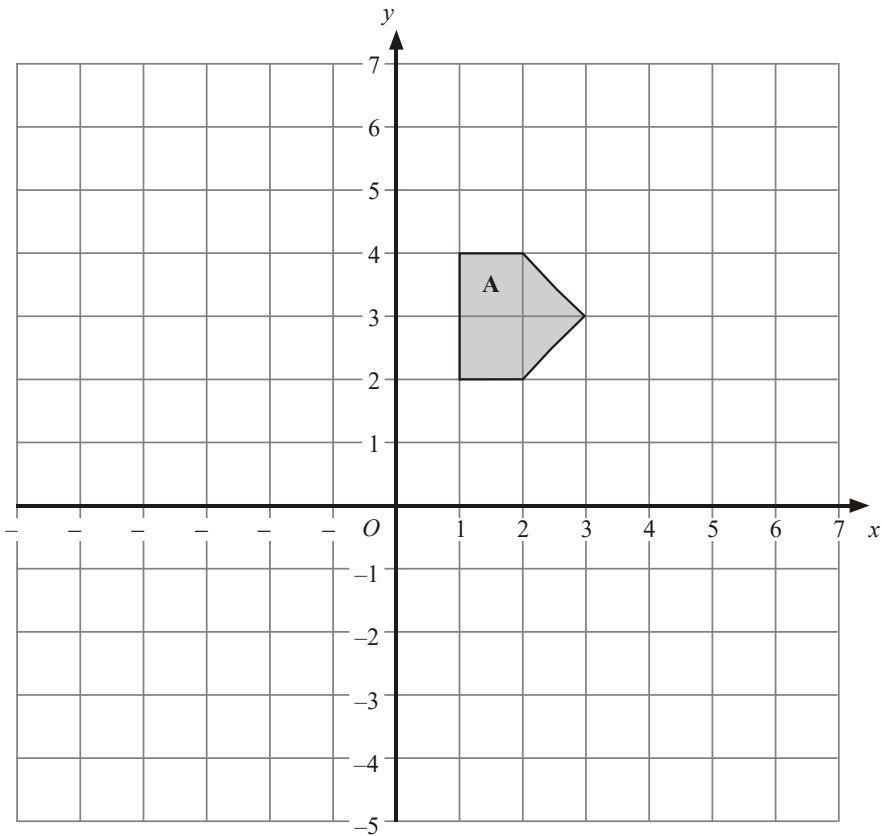
2



Reflect triangle **R** in the line  $AB$ .  
Label the new triangle **S**.

(Total for question 2 is 2 marks)

3



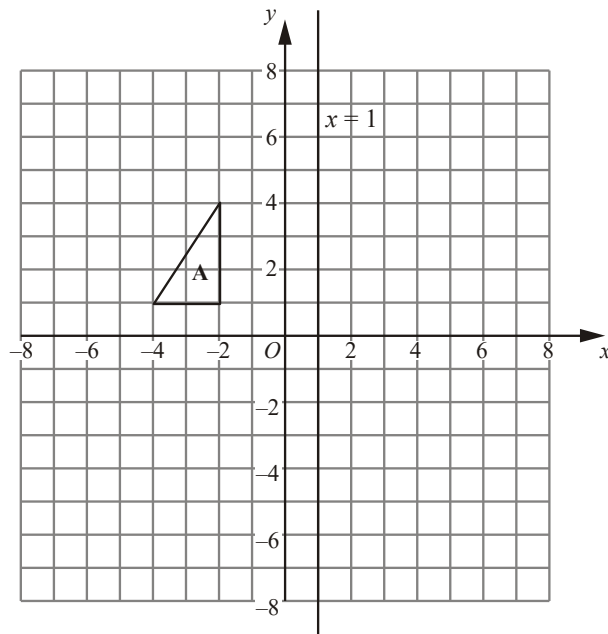
Leave blank

Reflect Shape **A** in the  $y$  axis.

Label your new shape **B**.

(Total for question 3 is 2 marks)

4



Triangle **A** is reflected in the  $x$ -axis to give triangle **B**.

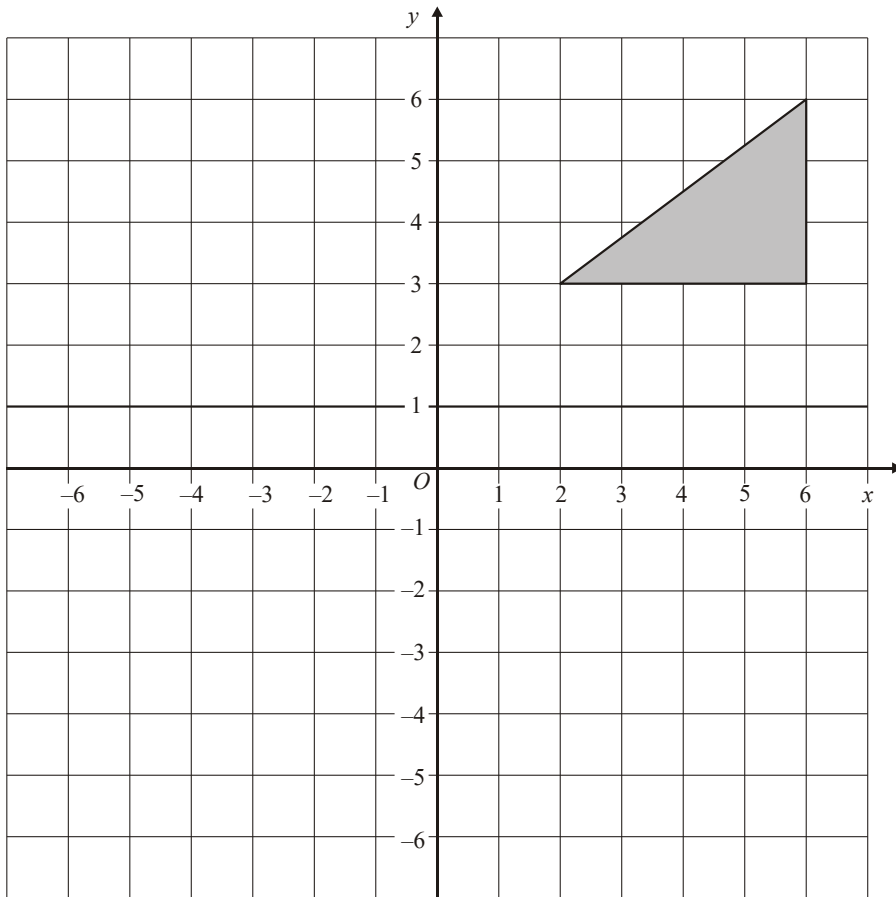
Draw the triangle **B** and label it **B**.

Triangle **B** is reflected in the line  $x = 1$  to give triangle **C**.

Draw the triangle **C** and label it **C**.

(Total for question 4 is 3 marks)

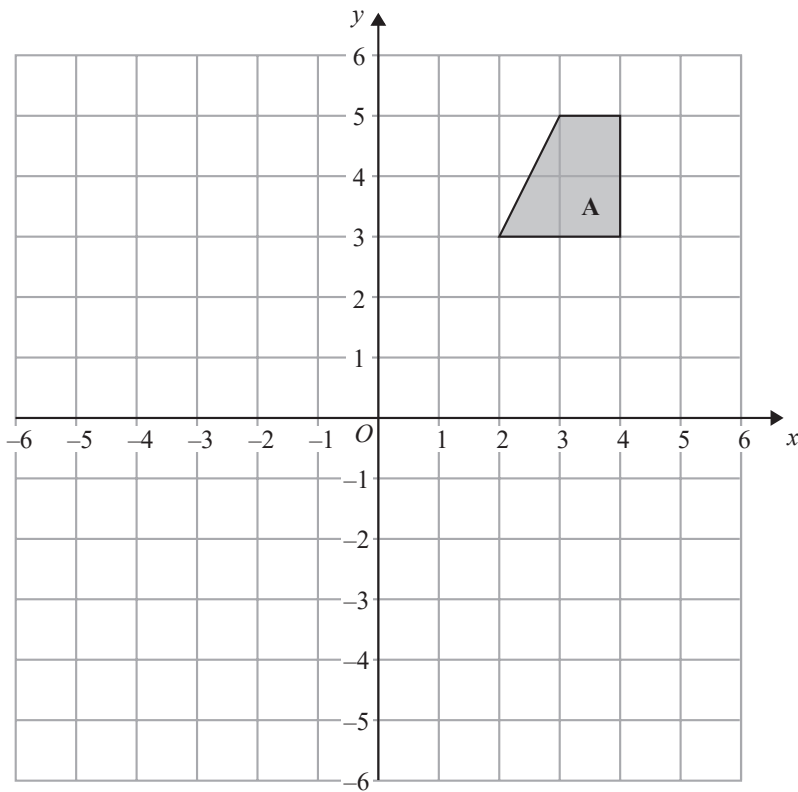
5



Reflect the triangle in the line  $y = 1$

(Total for question 5 is 2 marks)

6

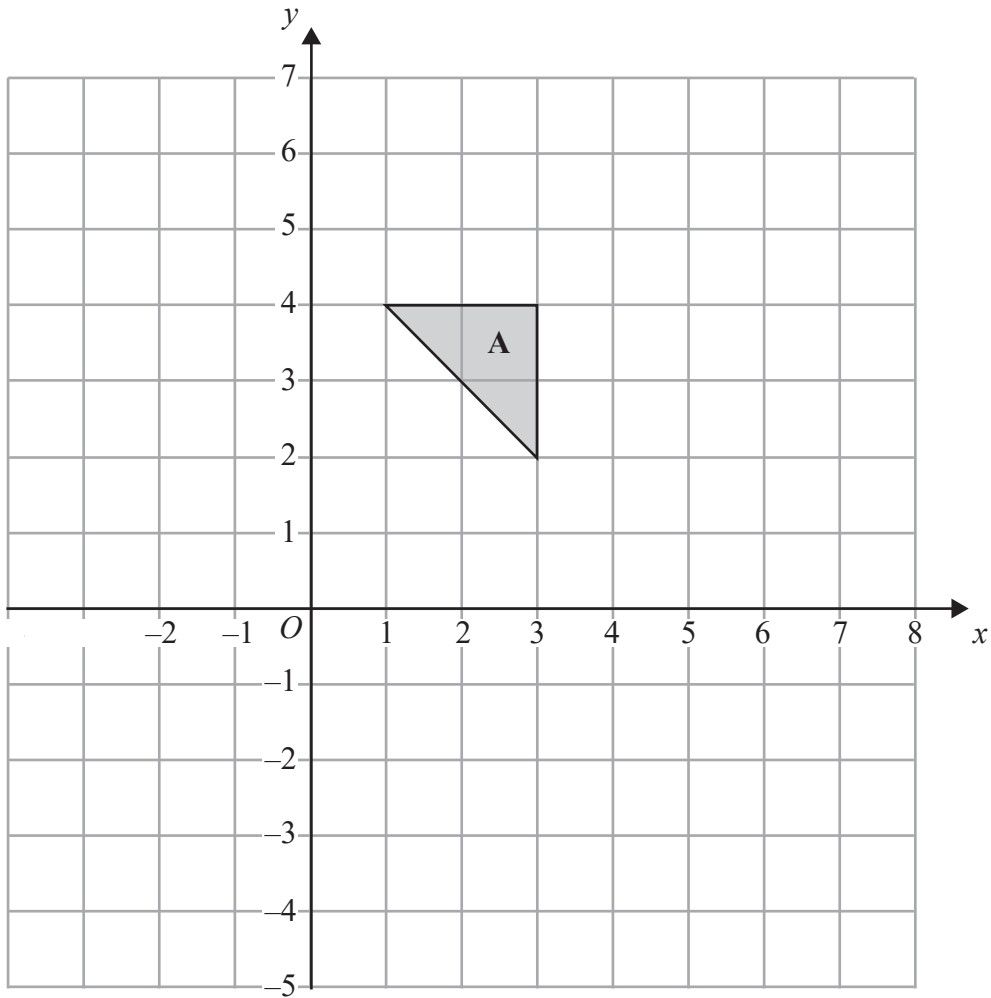


Reflect the shape in the line  $x = 3$

(Total for question 6 is 2 marks)

7

Leave blank

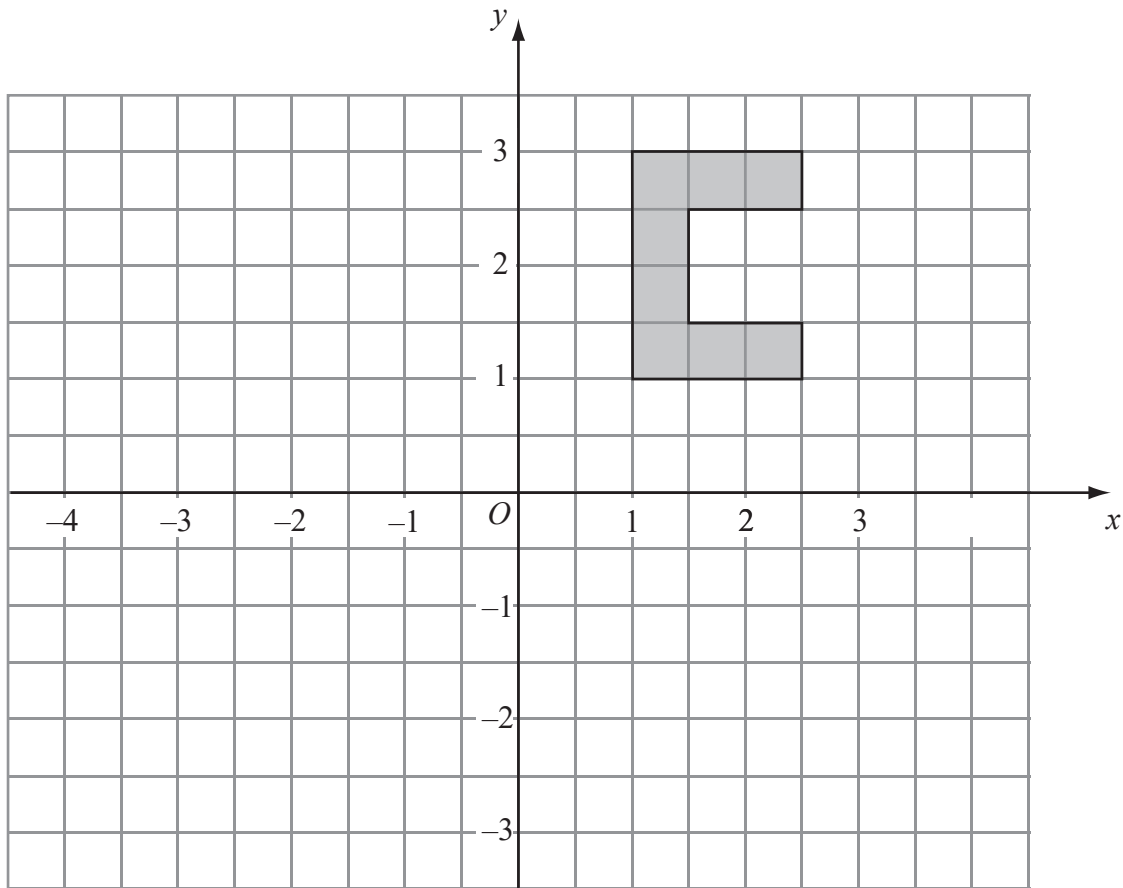


- (a) Reflect triangle **A** in the line  $x = 3$  and call it triangle **B**. (1)
- (b) Reflect **A** and **B** in the line  $y = 4$ . (2)

.....  
(Total for question 7 is 2 marks)

8

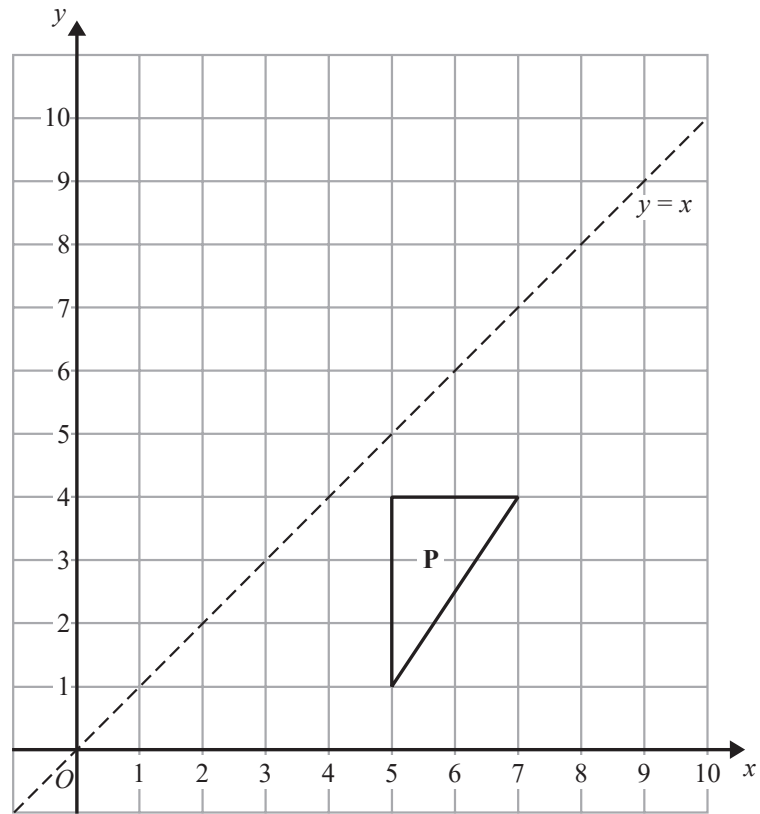
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- (a) Reflect the shape in the line  $x = 3$ .
- (b) Reflect both shapes in the line  $x = 0$ .

.....  
**(Total for question 8 is 2 marks)**

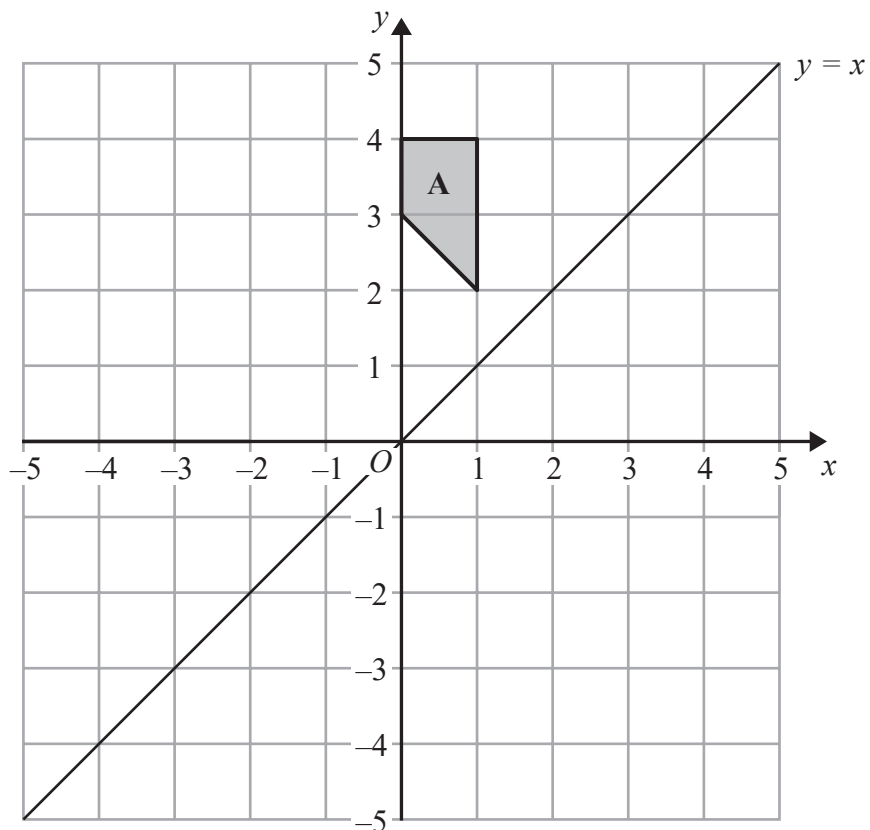
9



Reflect shape **P** in the line  $y = x$

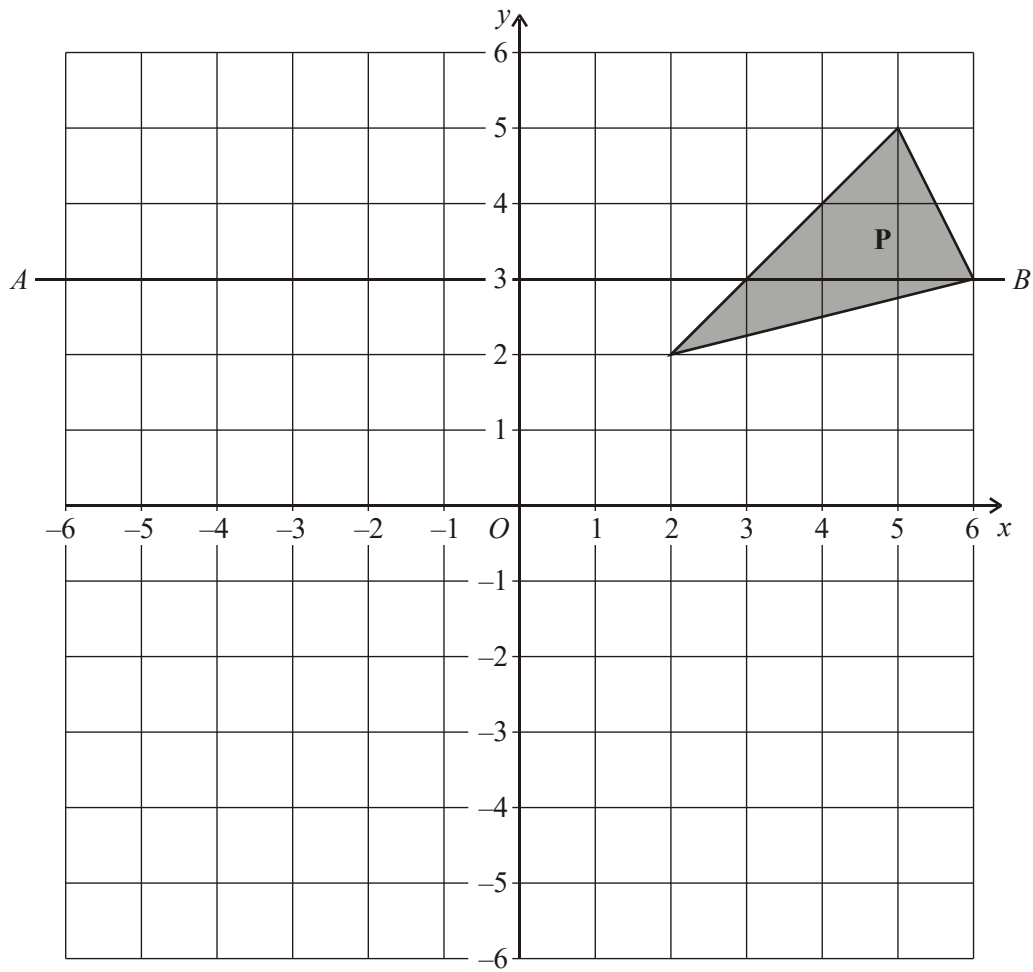
(Total for question 9 is 2 marks)

10



(a) On the grid, reflect shape **A** in the line  $y = x$ .

(Total for question 10 is 2 marks)



On the grid, reflect triangle **P** in the  $y$ -axis.

Label the new shape, **Q**.

(1)

The line  $AB$  is drawn on the grid.

(b) On the grid, reflect triangle **P** in the line  $AB$ .

Label the new shape, **R**.

(1)

(Total for question 14 is 2 marks)