

Name:

Date:

Enlargement by a Negative Scale Factor

GCSE

Edexcel

Mathematics

Grade (9-1)

Mark

Score (%)

— 14

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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

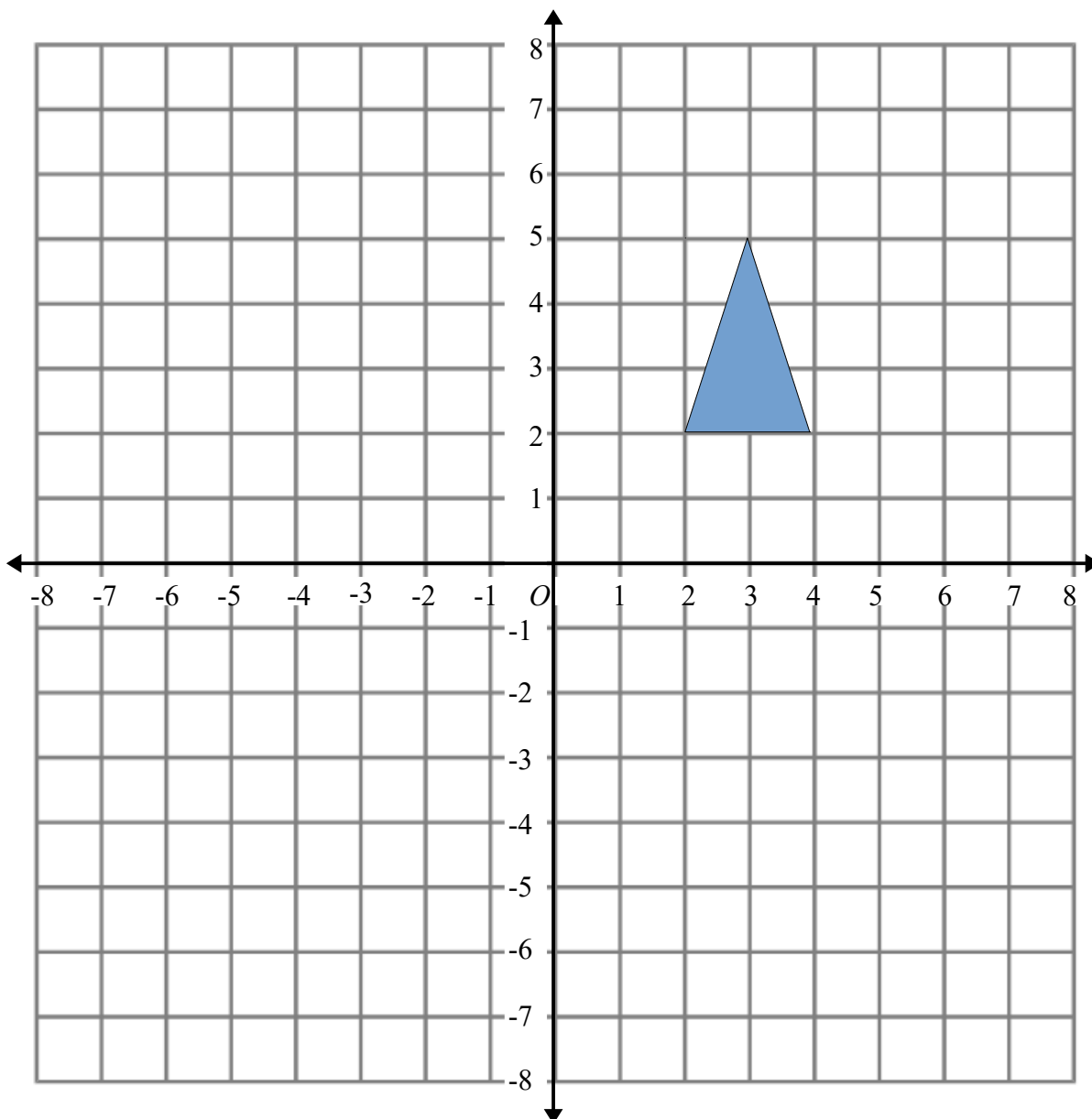
Instructions

- 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

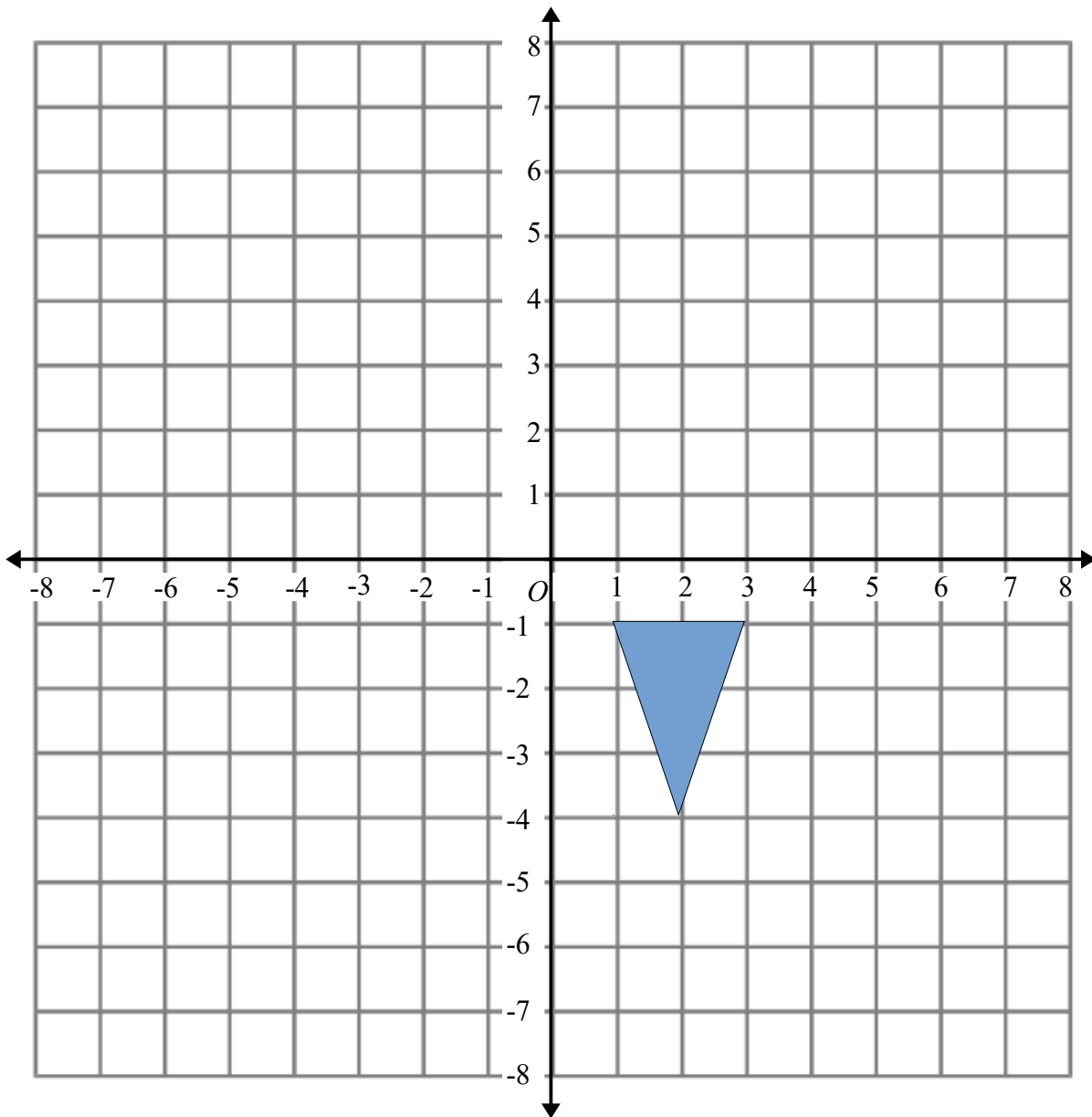
1



On the grid, enlarge the triangle by scale factor -2. centre (0,1)

(Total for question 1 is 2 marks)

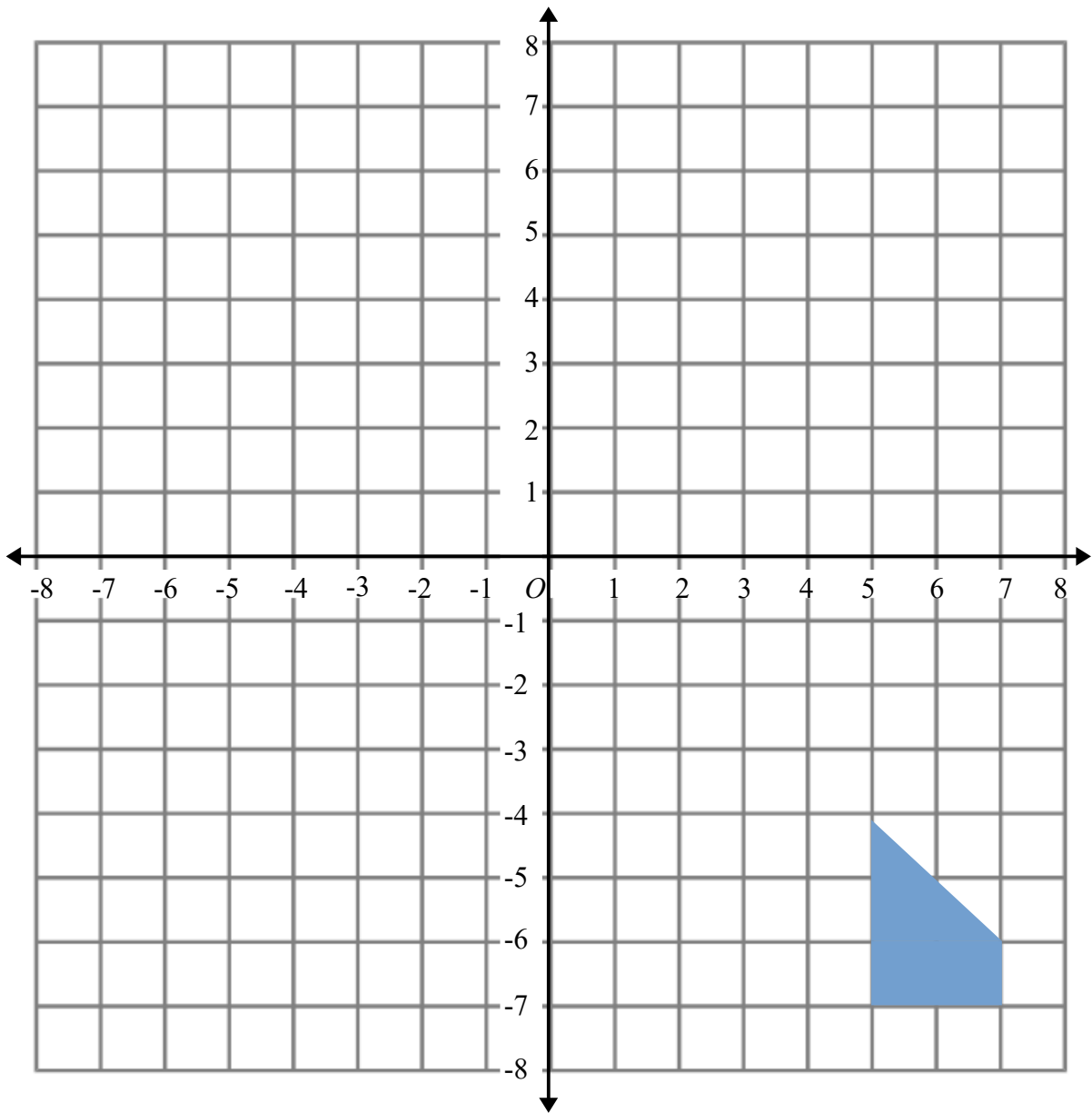
2



On the grid, enlarge the triangle by scale factor -2. centre O

(Total for question 2 is 2 marks)

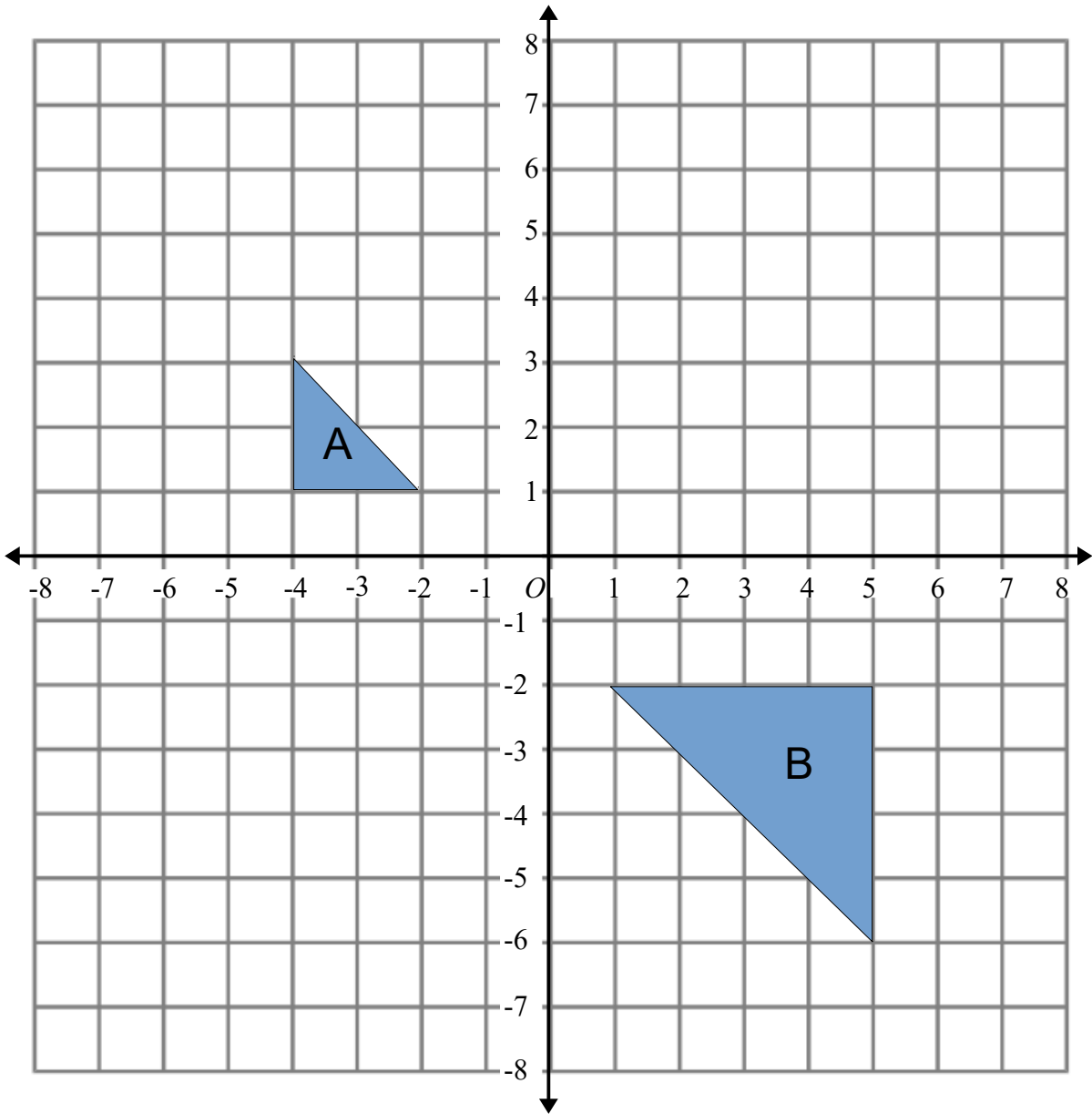
3



On the grid, enlarge the triangle by scale factor -3. centre (4,-4)

(Total for question 3 is 2 marks)

4

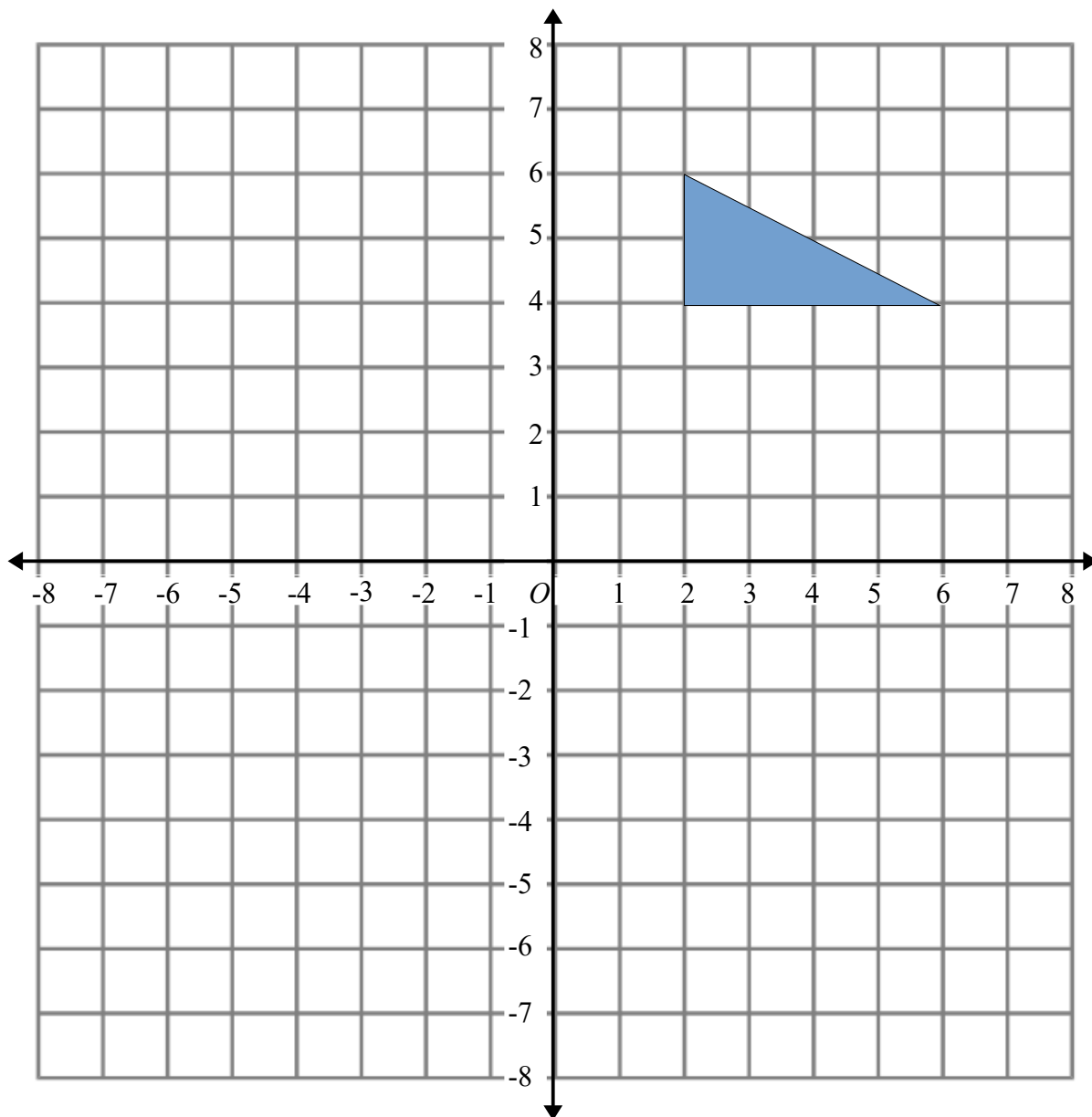


Describe fully the single transformation which maps triangle A onto triangle B.

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.....
.....

(Total for question 4 is 2 marks)

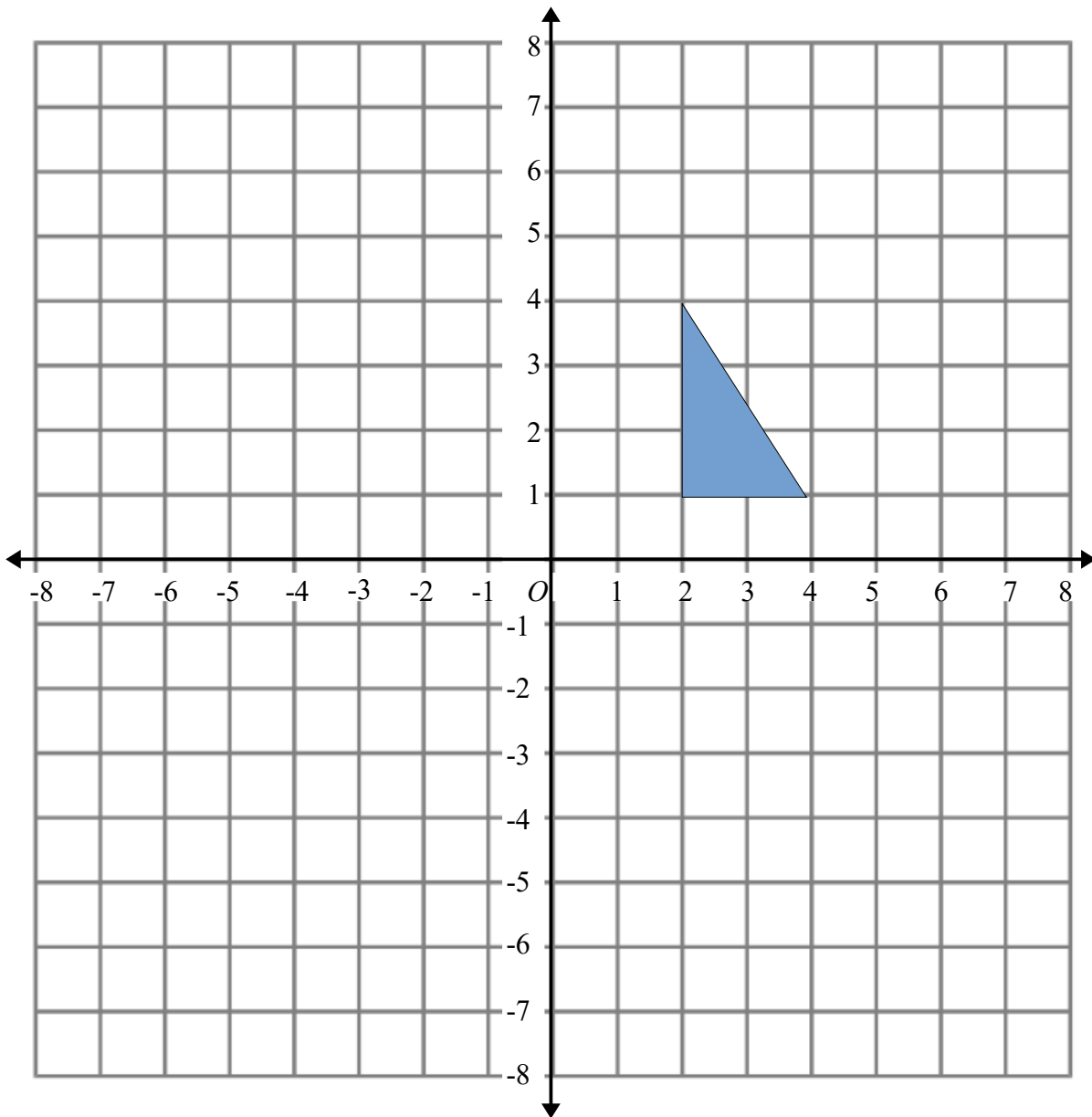
5



On the grid, enlarge the triangle by scale factor -0.5 , centre $(0, 2)$.

(Total for question 5 is 2 marks)

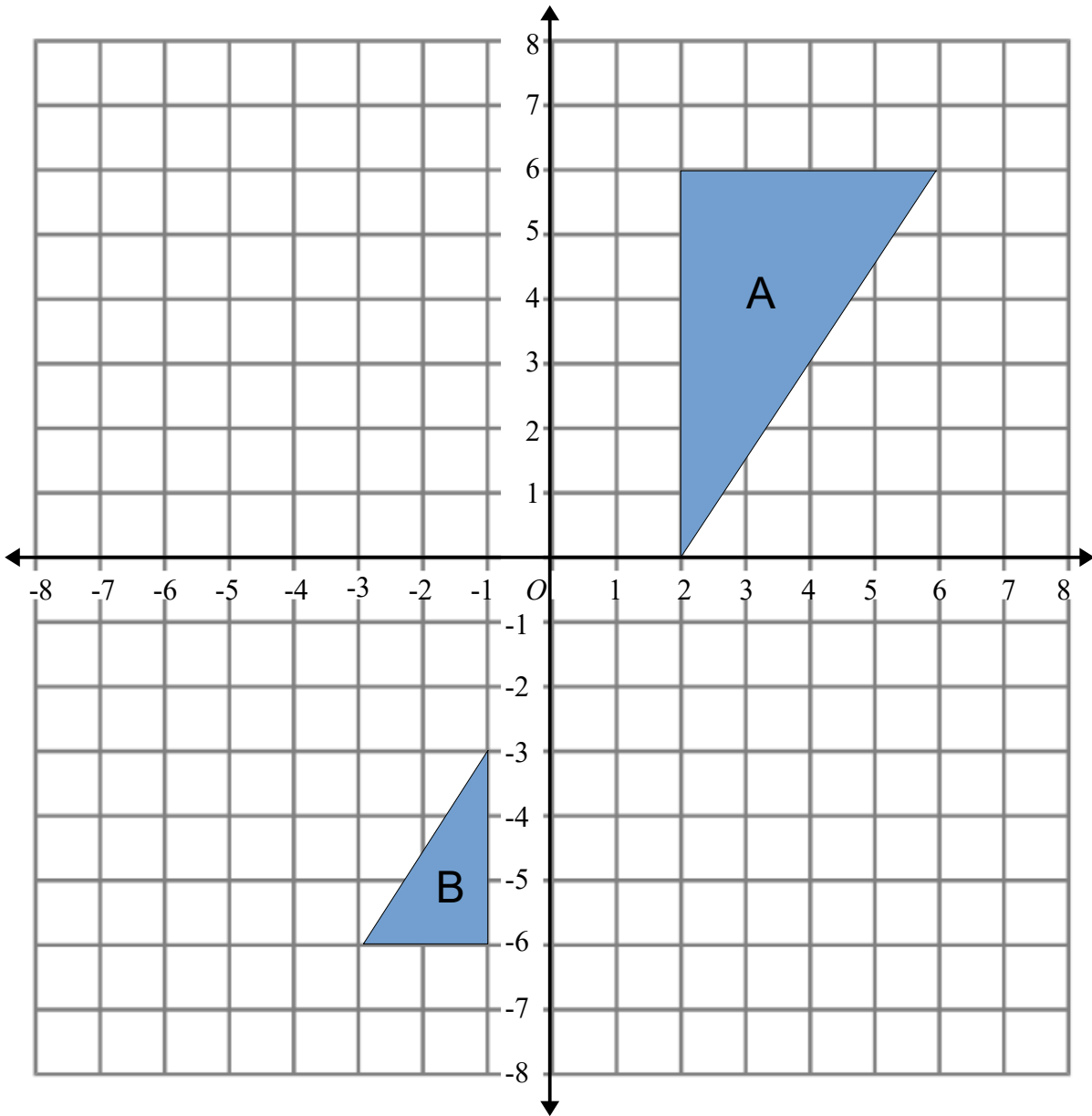
6



On the grid, enlarge the triangle by scale factor -1.5 , centre O .

(Total for question 6 is 2 marks)

7



Describe fully the single transformation which maps triangle A onto triangle B.

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(Total for question 7 is 2 marks)