Name: ___________________________

GCSE (1 – 9)

Enlargement by a Negative Scale Factor

Instructions

• Use black ink or ball-point pen.
• Answer all questions.
• Answer the questions in the spaces provided
  – *there may be more space than you need.*
• Diagrams are NOT accurately drawn, unless otherwise indicated.
• You must show all your working out.

Information

• The marks for each question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*

Advice

• Read each question carefully before you start to answer it.
• Keep an eye on the time.
• Try to answer every question.
• Check your answers if you have time at the end
On the grid, enlarge the triangle by scale factor -2. centre (0,1)

(Total for question 1 is 2 marks)
On the grid, enlarge the triangle by scale factor -2. centre O

(Total for question 2 is 2 marks)
On the grid, enlarge the triangle by scale factor -3. centre (4,-4)

(Total for question 3 is 2 marks)
Describe fully the single transformation which maps triangle A onto triangle B.

............................................................................................................................................................
............................................................................................................................................................
............................................................................................................................................................

(Total for question 4 is 2 marks)
On the grid, enlarge the triangle by scale factor -0.5. centre (0,2)

(Total for question 5 is 2 marks)
On the grid, enlarge the triangle by scale factor -1.5. centre $O$.

(Total for question 6 is 2 marks)
Describe fully the single transformation which maps triangle A onto triangle B.

............................................................................................................................................................
............................................................................................................................................................
............................................................................................................................................................

(Total for question 7 is 2 marks)