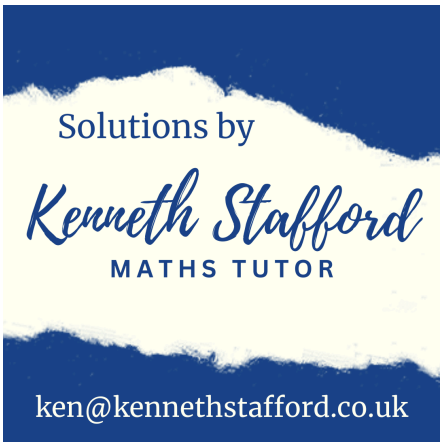
Name:_____

GCSE (1 - 9)

Rotations

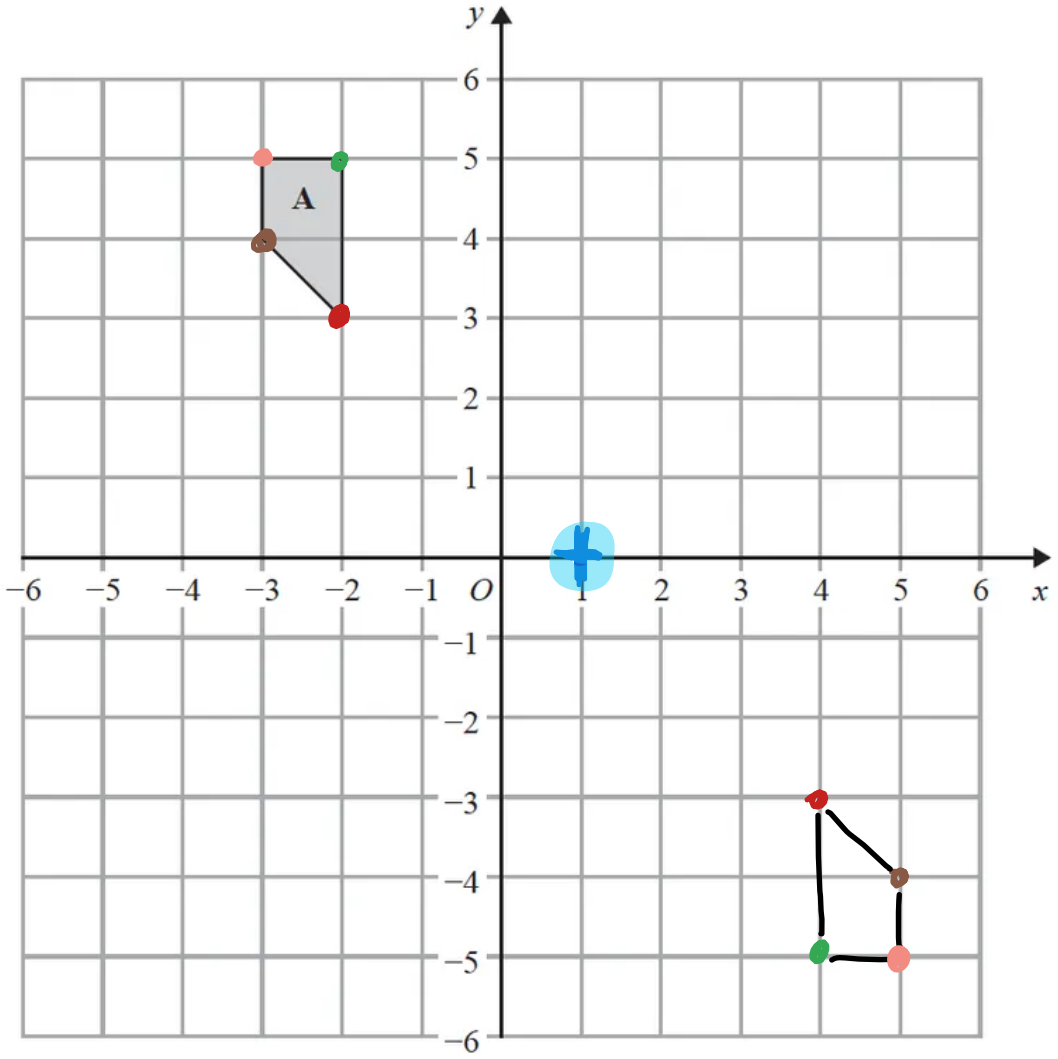




These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2018, Paper 1F, Q19
2	Edexcel, GCSE, Autumn 2017, Paper 2F, Q20
3	Edexcel, GCSE, Summer 2017, Paper 2F, Q13
4	Edexcel, GCSE, Summer 2023, Paper 3F, Q16
5	Edexcel, GCSE, November 2022, Paper 2F, Q18

1

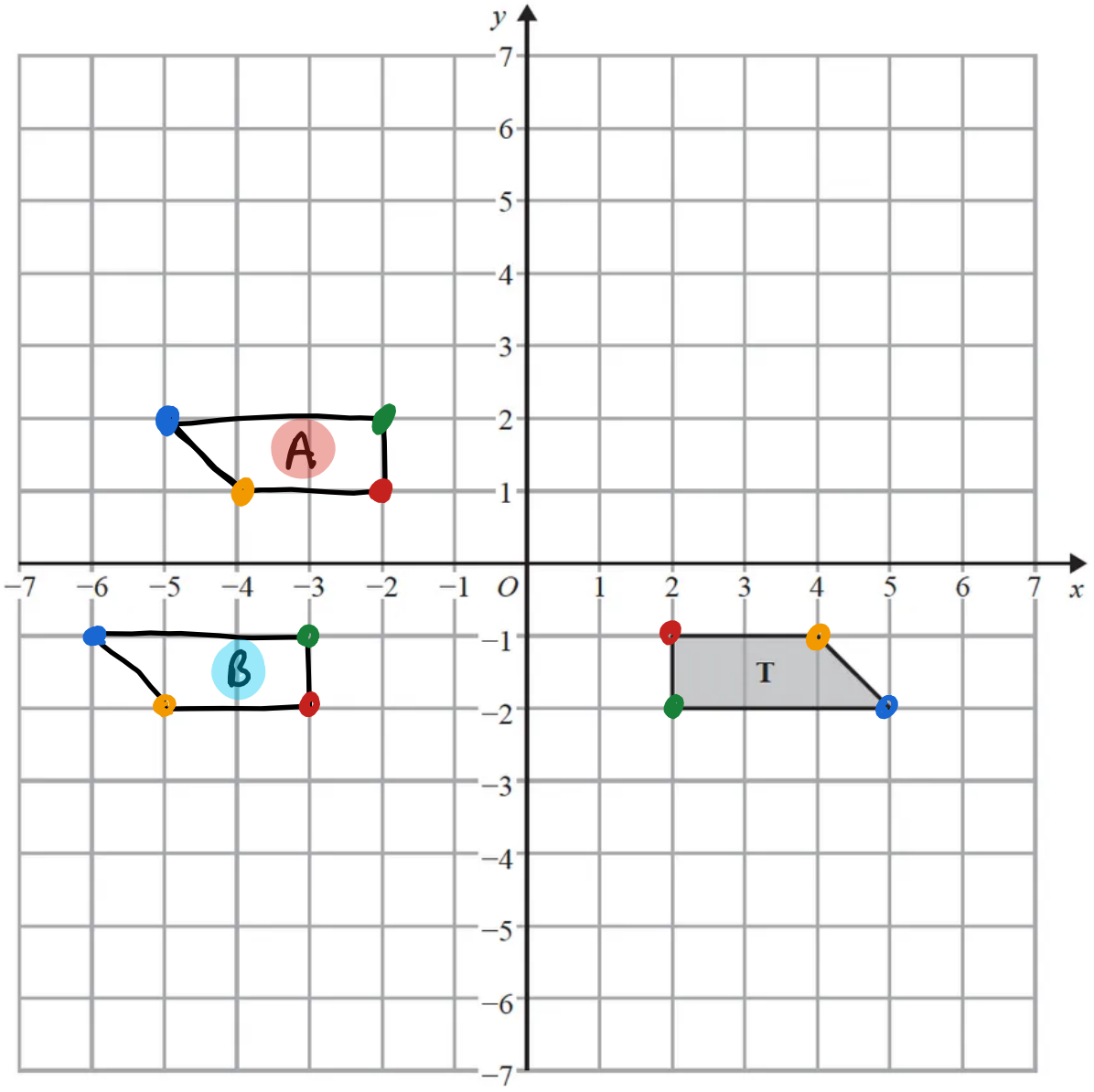


Rotate shape **A** 180° about (1, 0)

(Total for Question 19 is 2 marks)

[Edexcel, GCSE, Autumn 2018, Paper 1F, Q19]

2



(a) Rotate trapezium **T** 180° about the origin.
Label the new trapezium **A**.

(1)

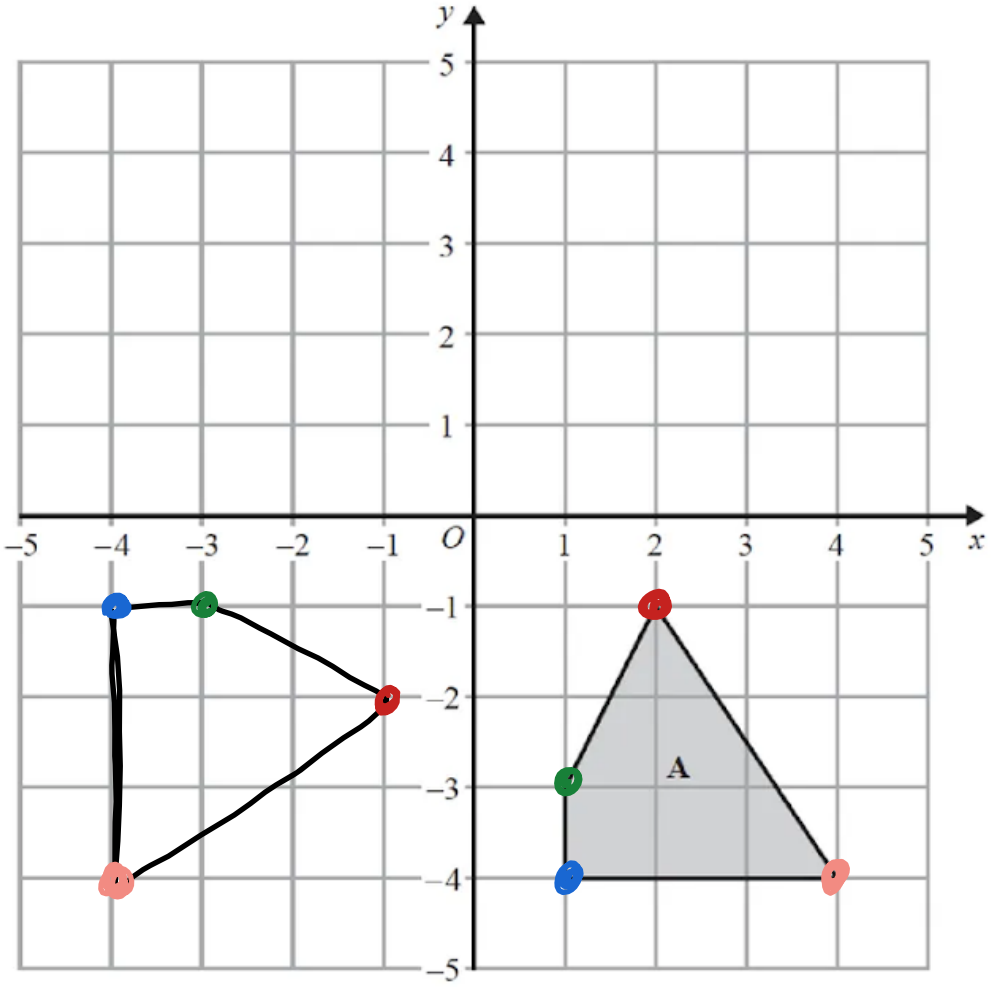
(b) Translate trapezium **T** by the vector $\begin{pmatrix} -1 \\ -3 \end{pmatrix}$
Label the new trapezium **B**.

(1)

(Total for Question 20 is 2 marks)

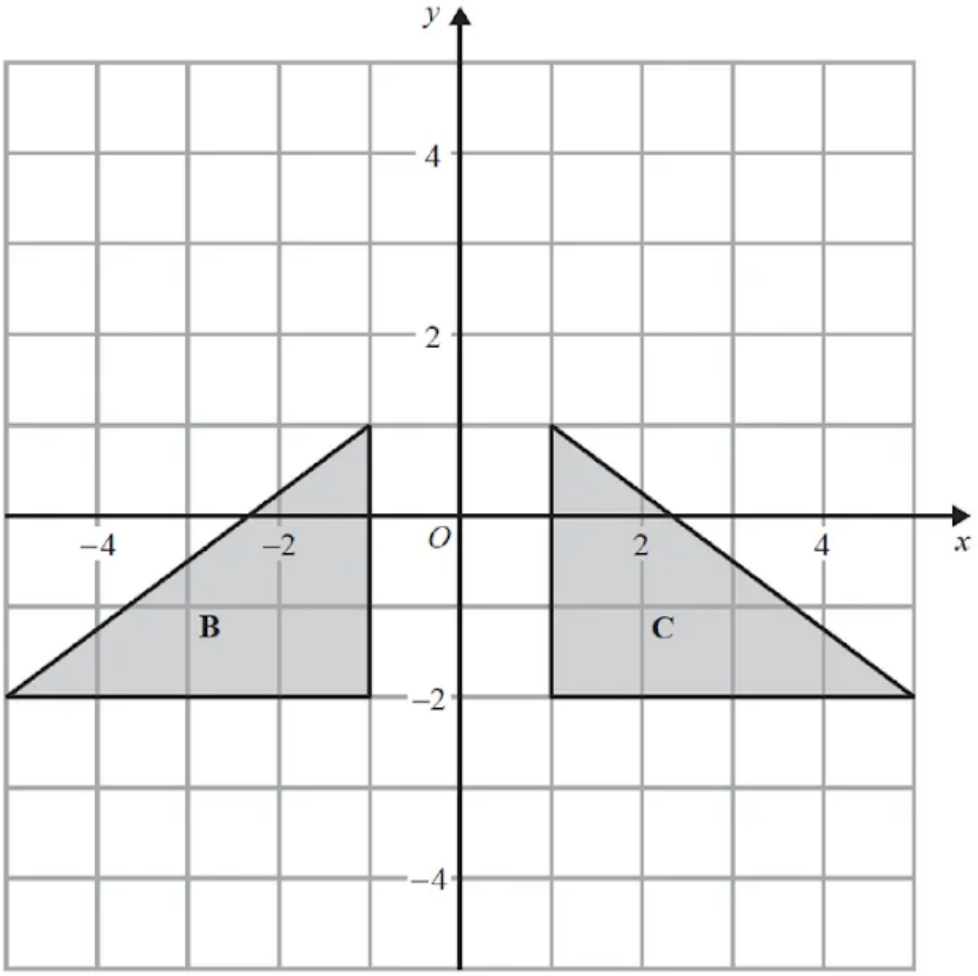
[Edexcel, GCSE, Autumn 2017, Paper 2F, Q20]

3



(a) Rotate shape **A** 90° clockwise about centre O.

(2)



(b) Describe fully the single transformation that maps triangle **B** onto triangle **C**.

Reflected in the y axis.

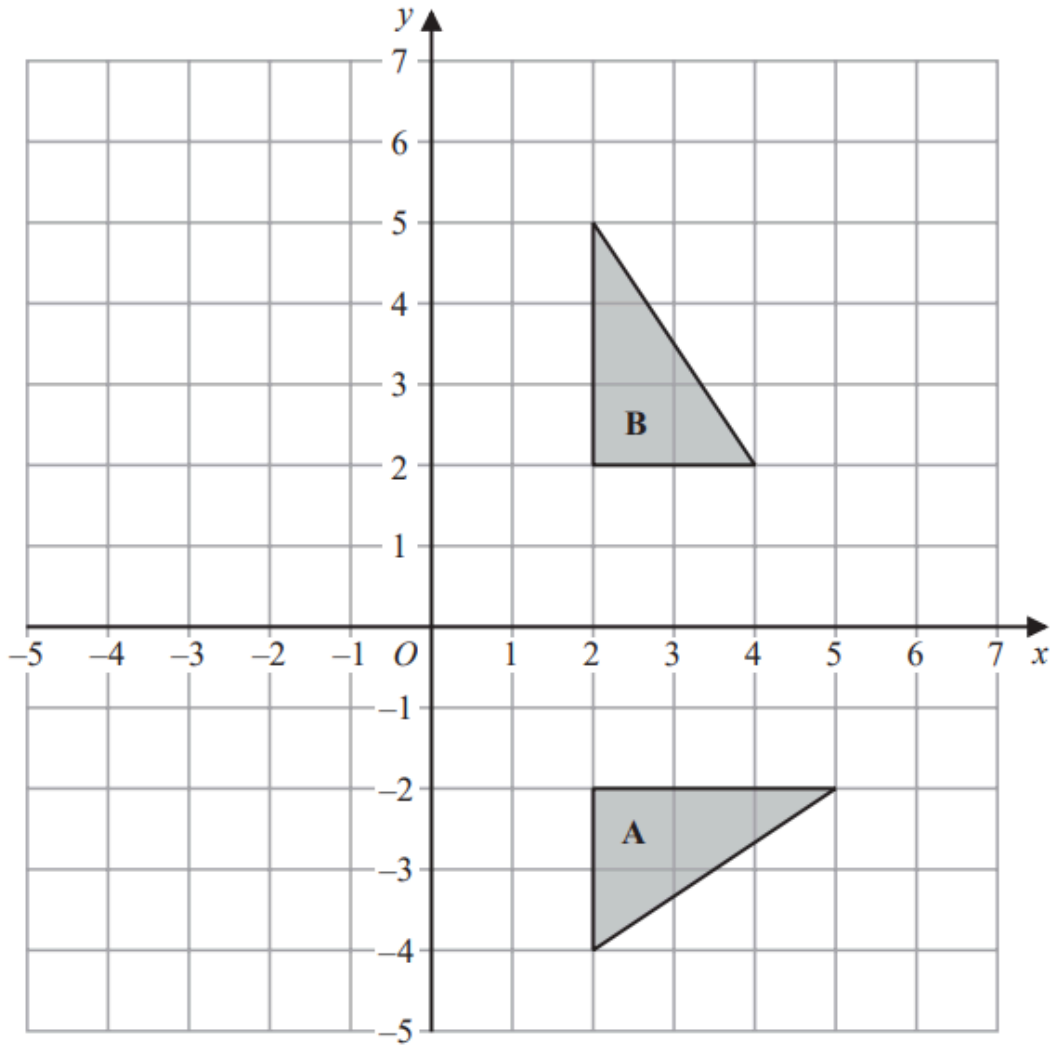
Not a rotation (the first part of this question was)

(2)

(Total for Question 13 is 4 marks)

[Edexcel, GCSE, Summer 2017, Paper 2F, Q13]

4



Describe fully the single transformation that maps shape **A** onto shape **B**.

Rotation 270 degrees clockwise, centre (0,0)

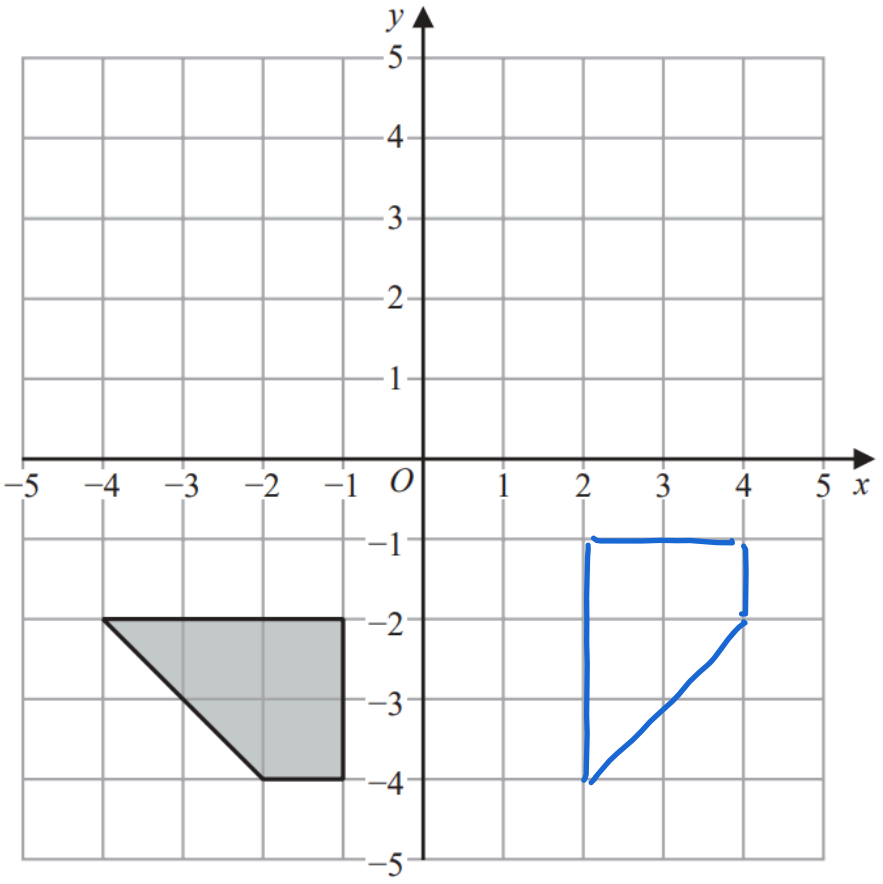
or

Rotation 90 degrees anti-clockwise, centre (0,0)

(Total for Question 16 is 2 marks)

[Edexcel, GCSE, Summer 2023, Paper 3F, Q16]

5



Rotate the shaded shape 90° anticlockwise about (0,0)

(Total for Question 18 is 2 marks)

[Edexcel, GCSE, November 2022, Paper 2F, Q18]