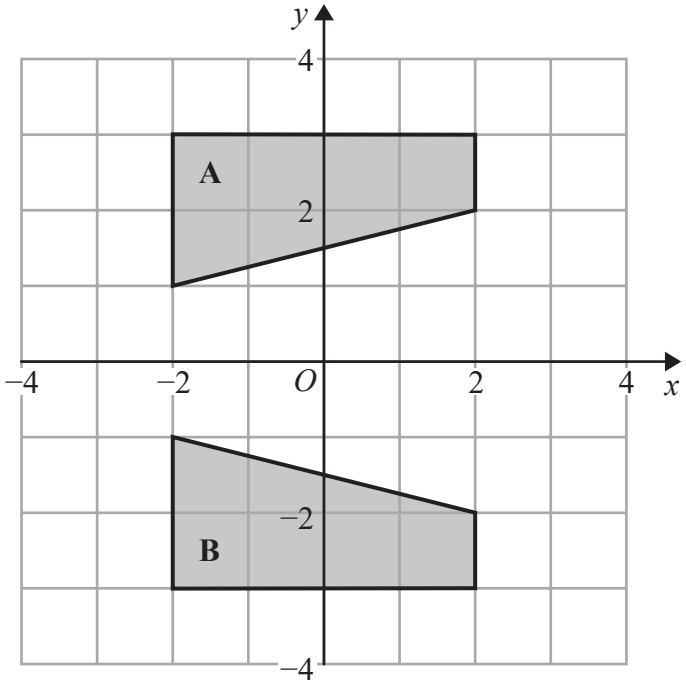
Autumn 2017 Paper 3 Q14

1



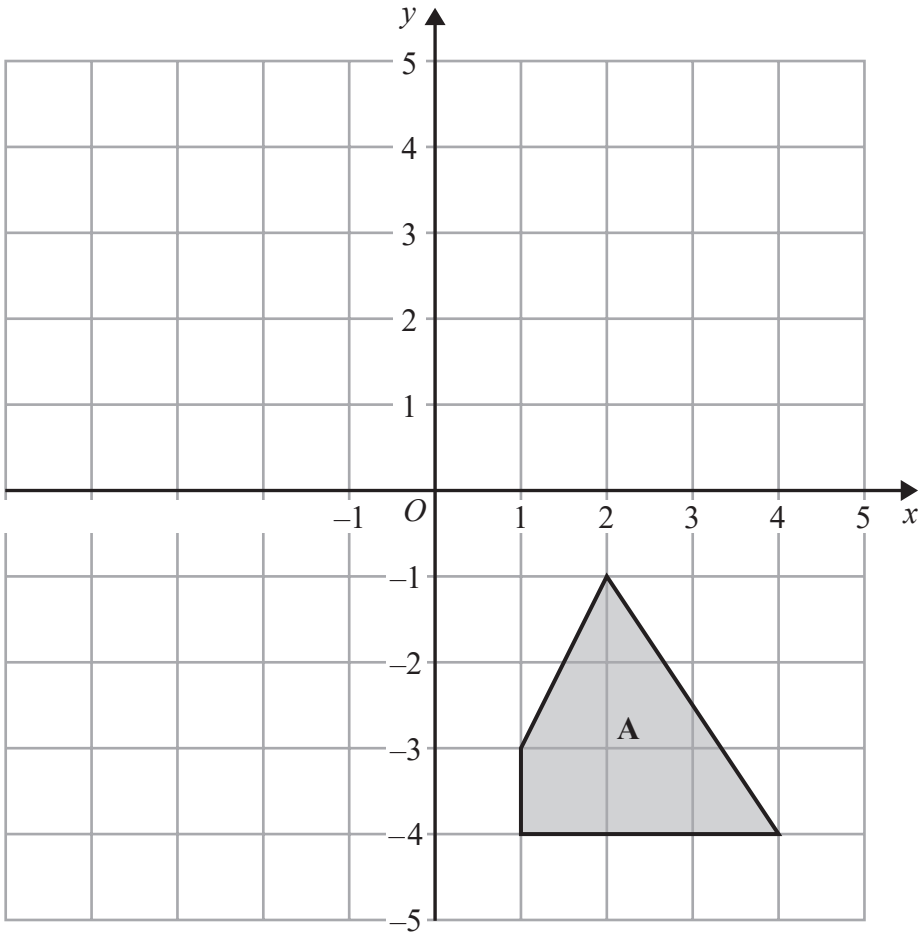
Describe fully the single transformation that maps shape **A** onto shape **B**.

.....

(Total for Question 1 is 2 marks)

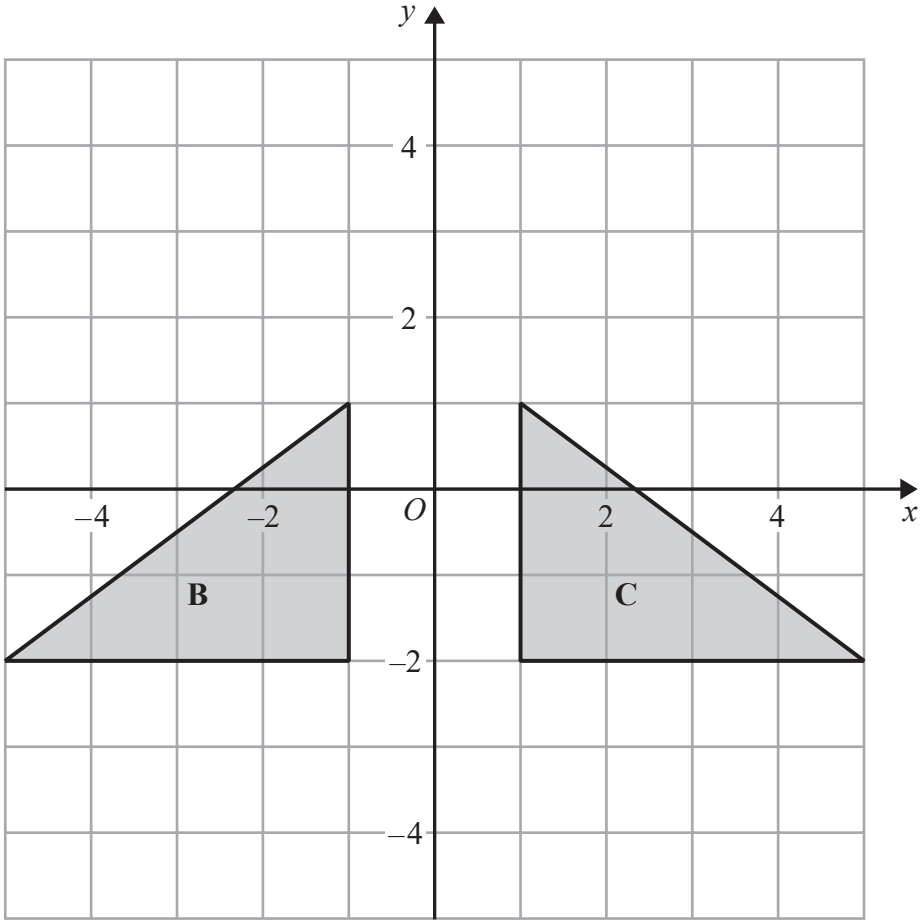
Summer 2017 Paper 2 Q13

2



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

(2)



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

.....

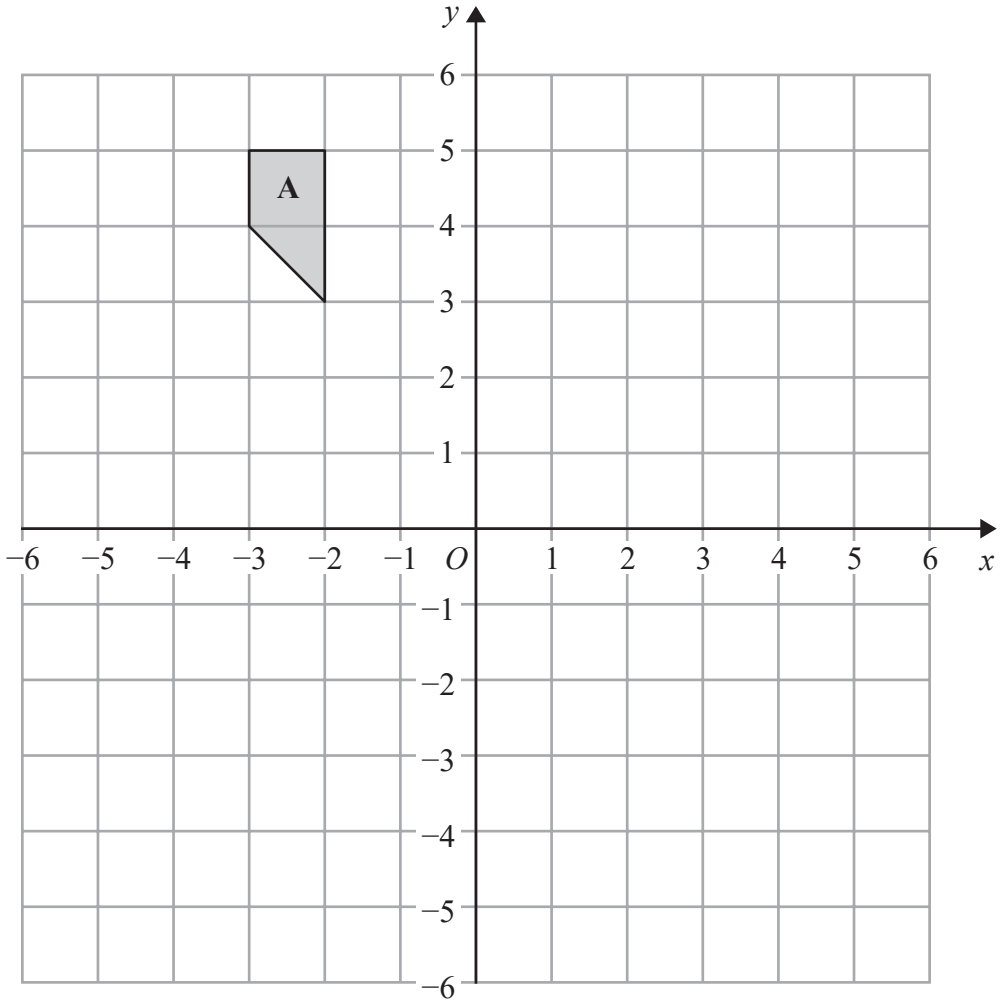
.....

(2)

(Total for Question 2 is 4 marks)

Autumn 2018 Paper 1 Q19

3

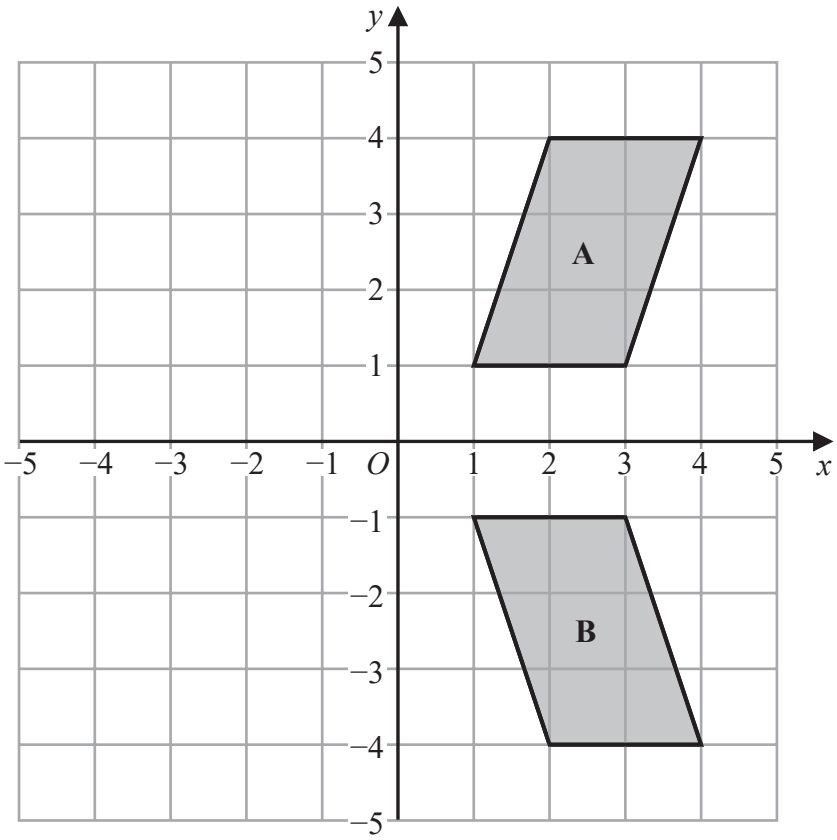


Rotate shape **A** 180° about (1, 0)

(Total for Question 3 is 2 marks)

Autumn 2018 Paper 2 Q16

4



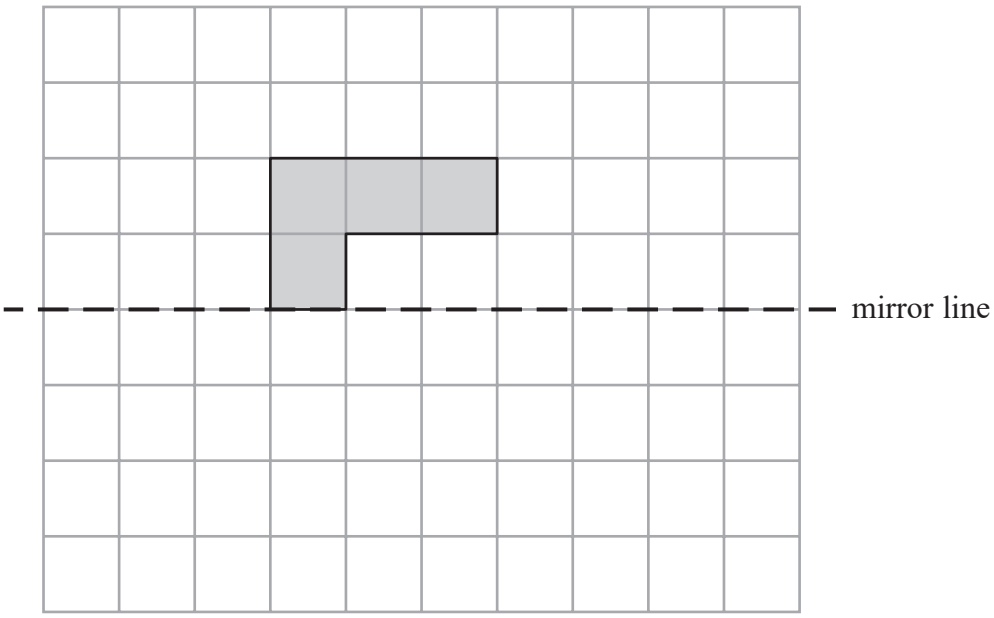
Describe fully the single transformation that maps shape **A** onto shape **B**.

.....

(Total for Question 4 is 2 marks)

Autumn 2018 Paper 3 Q10

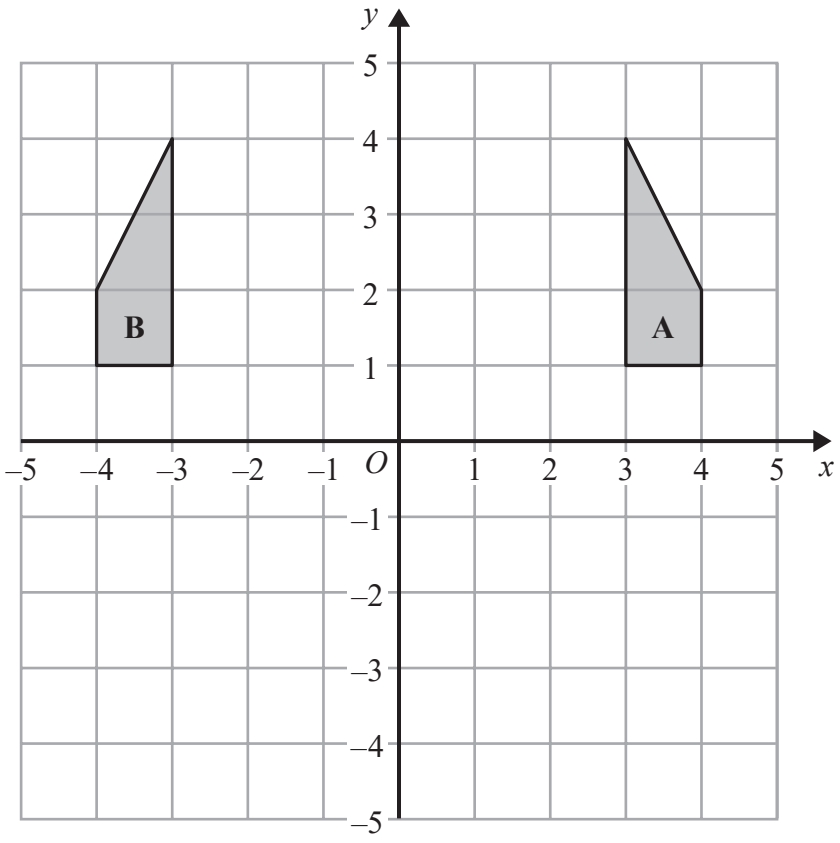
5 On the grid, reflect the shaded shape in the mirror line.



(Total for Question 5 is 1 mark)

Summer 2018 Paper 2 Q18

6



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

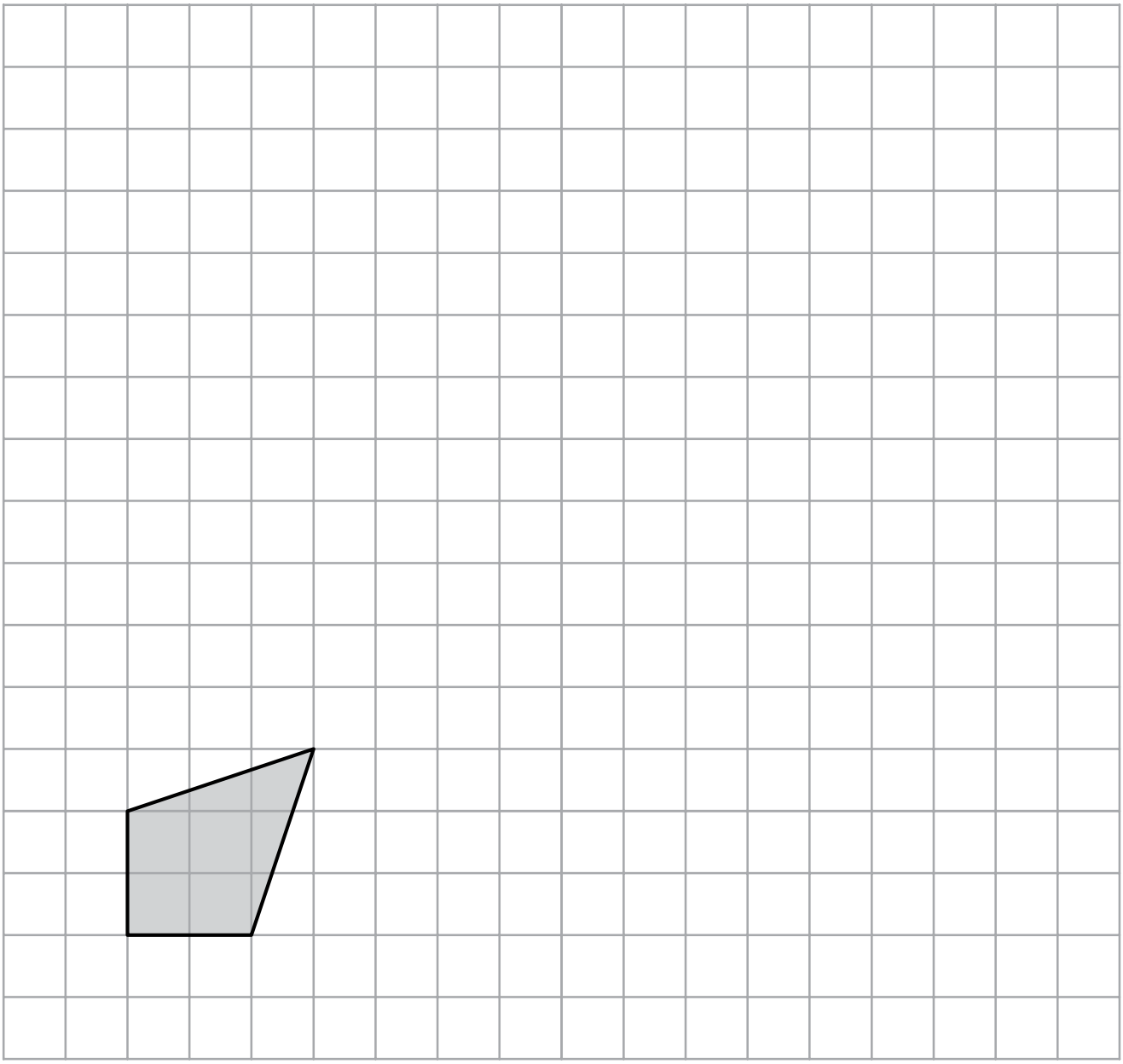
.....

.....

(Total for Question 6 is 2 marks)

Autumn 2019 Paper 2 Q13

7

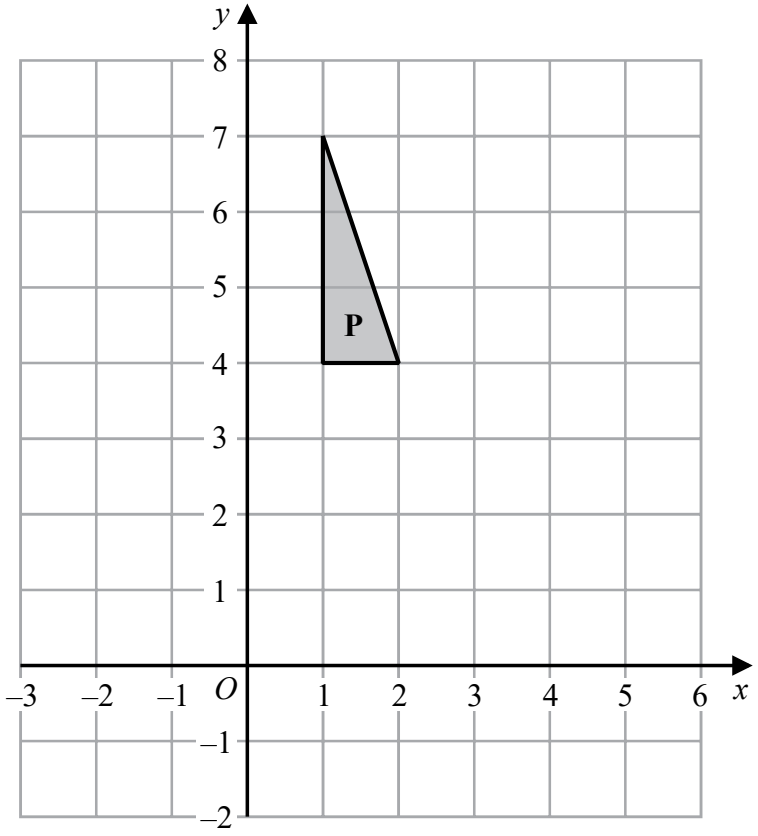


On the grid, draw an enlargement of the shaded shape with a scale factor of 3

(Total for Question 7 is 2 marks)

Autumn 2019 Paper 3 Q18

8

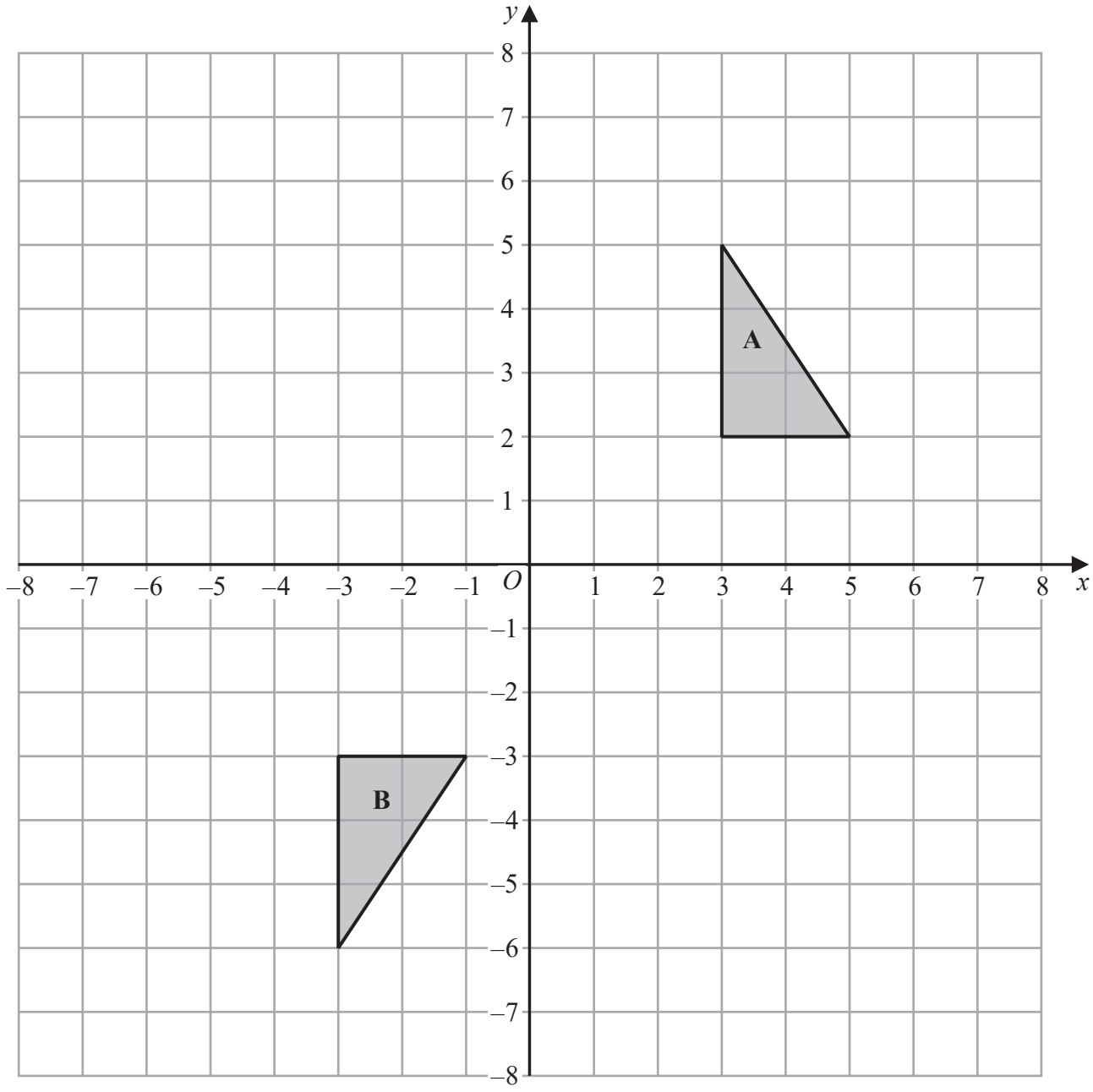


Reflect shape **P** in the line $y = 3$

(Total for Question 8 is 2 marks)

Summer 2019 Paper 1 Q26

9



Shape **A** can be transformed to shape **B** by a reflection in the x-axis followed by a translation $\begin{pmatrix} c \\ d \end{pmatrix}$

Find the value of c and the value of d.

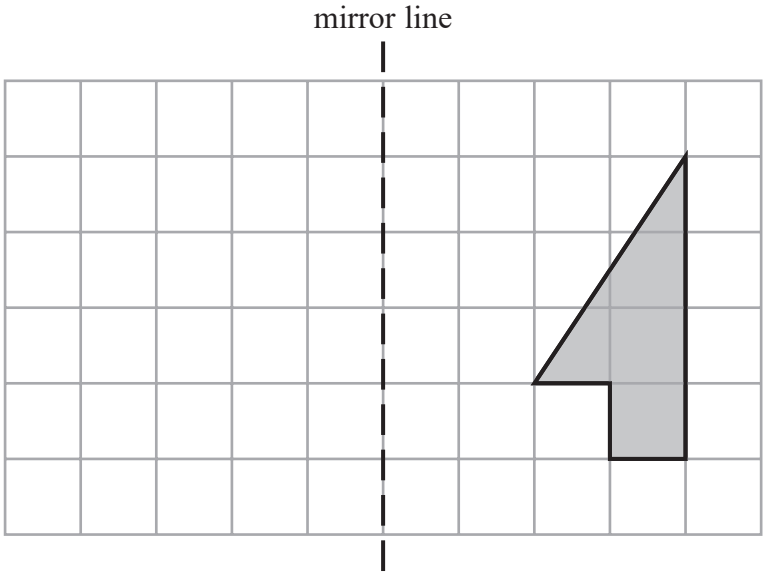
$c =$ .....

$d =$ .....

(Total for Question 9 is 3 marks)

Summer 2020 Paper 1 Q11

10

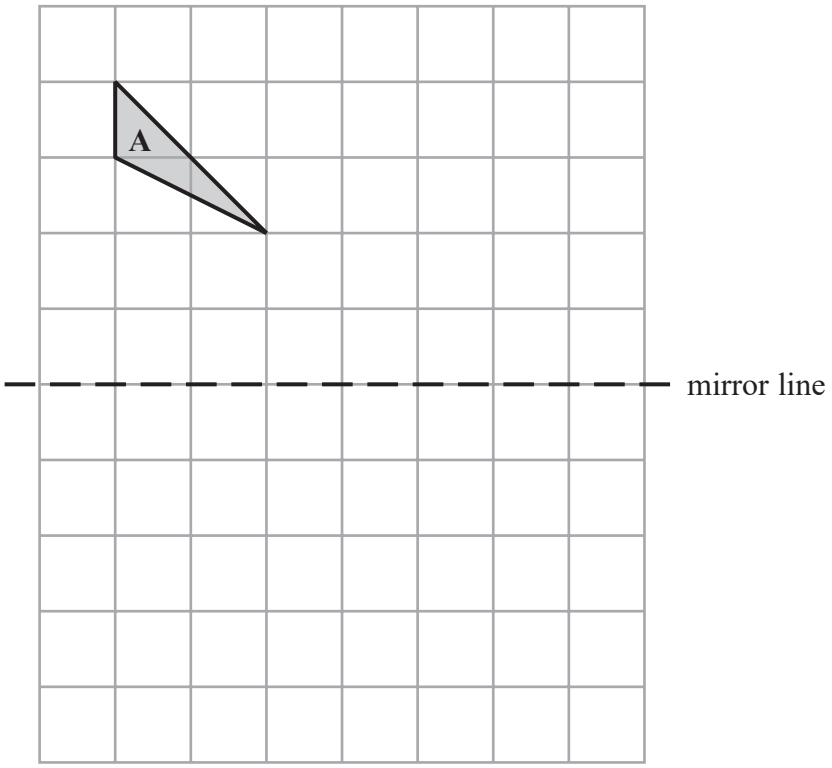


Reflect the shaded shape in the mirror line.

(Total for Question 10 is 2 marks)

Autumn 2021 Paper 2 Q11

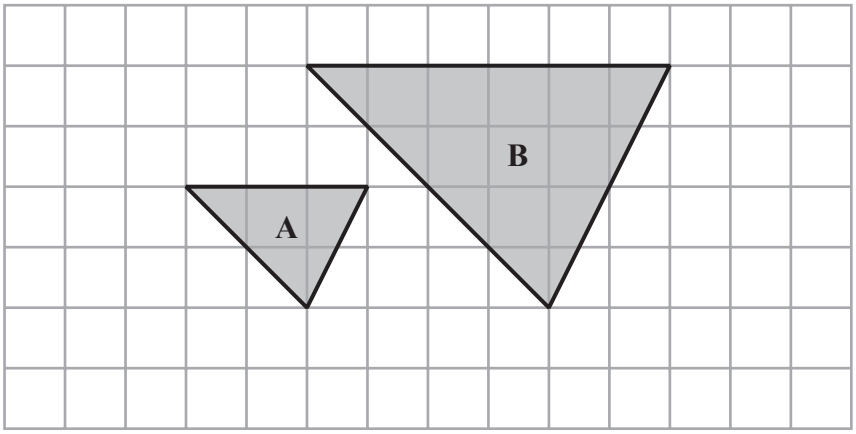
11 Reflect shape **A** in the mirror line.



(Total for Question 11 is 2 marks)

Autumn 2022 Paper 1 Q11

12 Here are two triangles on a grid.



Triangle **B** is an enlargement of triangle **A**.

(a) (i) Write down the scale factor of the enlargement.

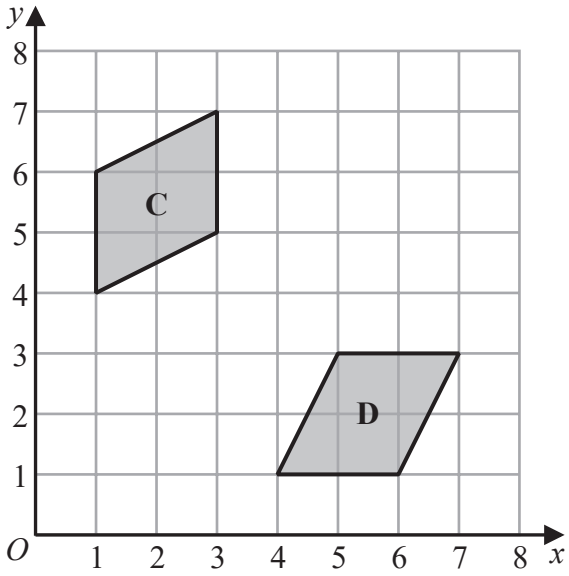
.....

(1)

(ii) On the grid, mark with a cross (×) the centre of enlargement.

(1)

Here are two parallelograms on a coordinate grid.



Parallelogram **D** is a reflection of parallelogram **C**.

(b) (i) On the grid, draw the mirror line.

(1)

(ii) Write down an equation of this mirror line.

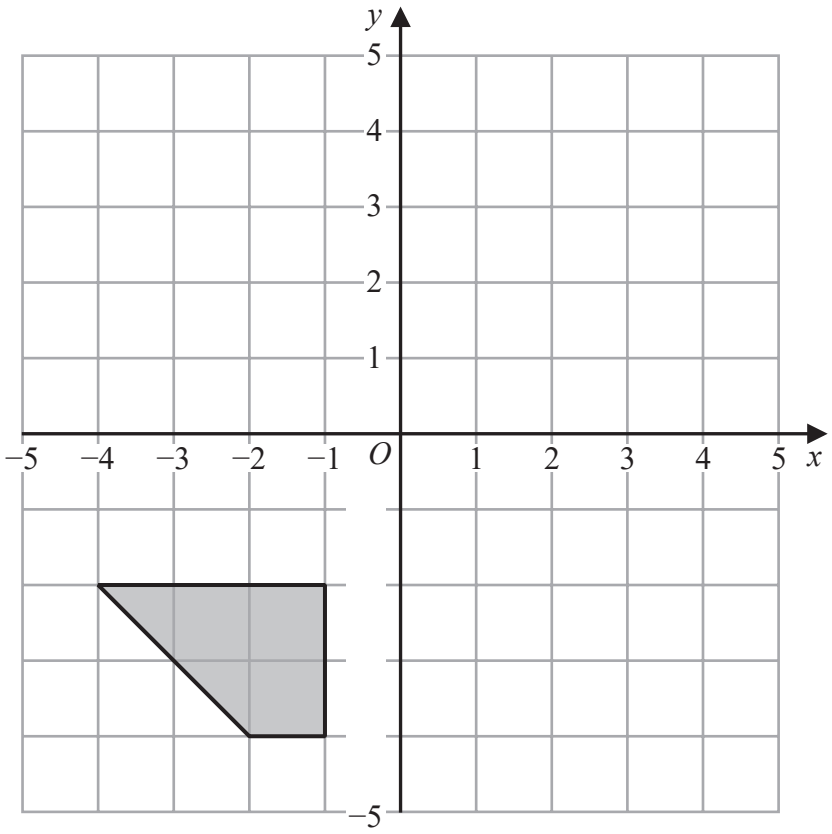
.....

(1)

(Total for Question 12 is 4 marks)

Autumn 2022 Paper 3 Q18

13

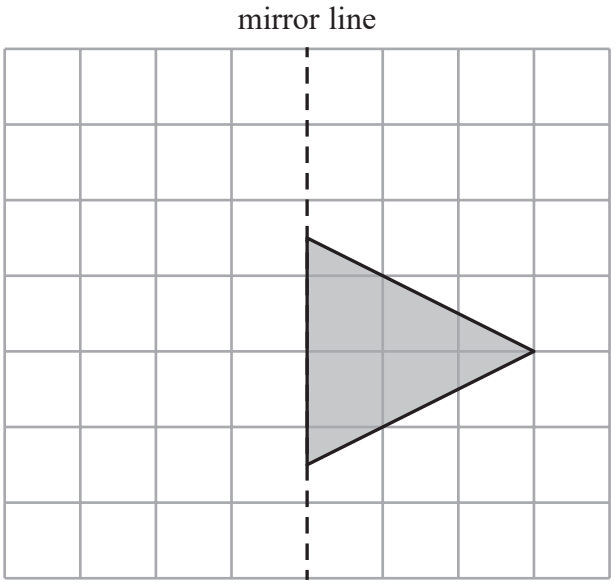


Rotate the shaded shape 90° anticlockwise about (0,0)

(Total for Question 13 is 2 marks)

Summer 2022 Paper 1 Q3

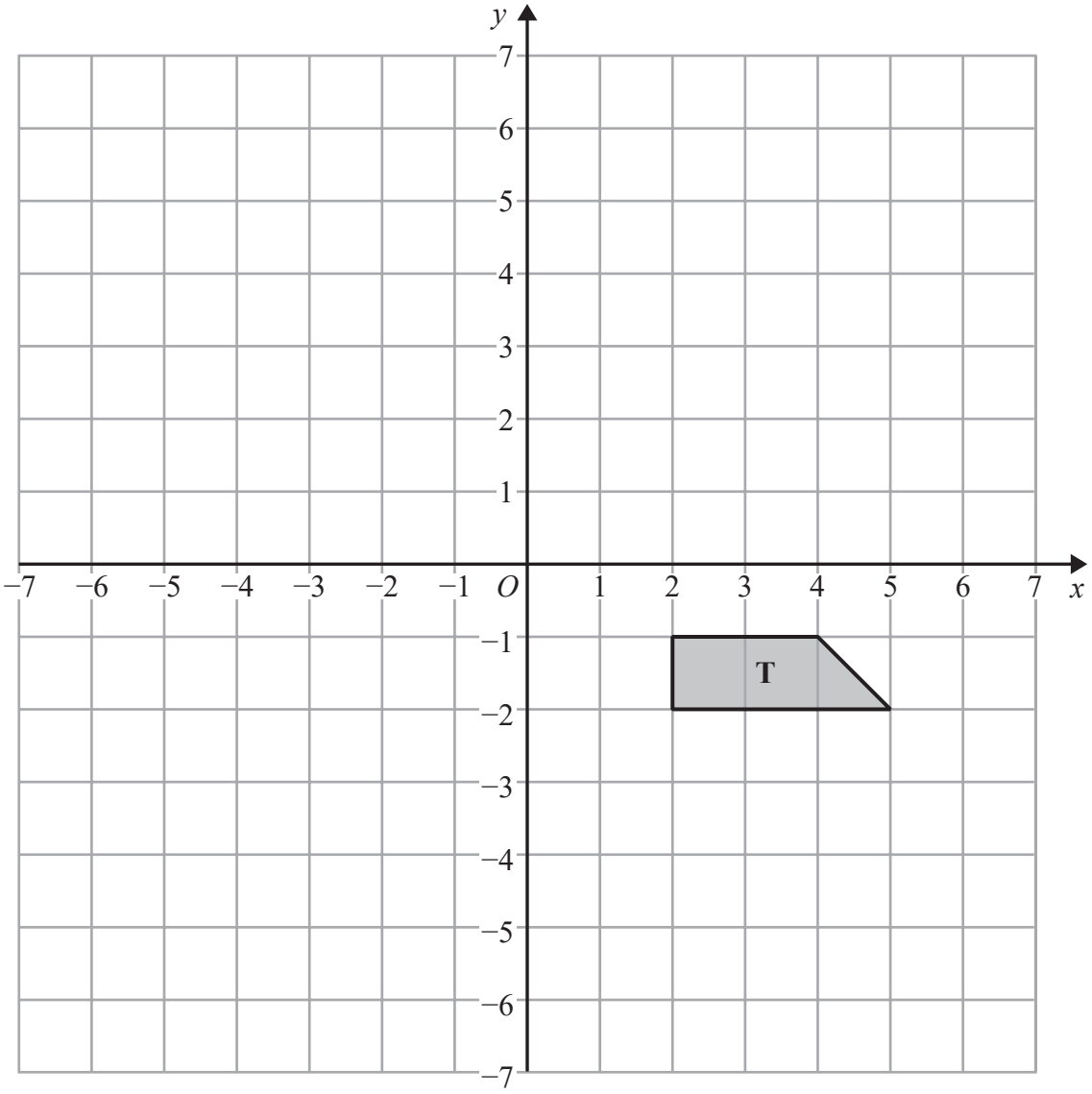
14 On the grid, reflect the shaded triangle in the mirror line.



(Total for Question 14 is 1 mark)

Autumn 2017 Paper 2 Q20

15



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

(1)

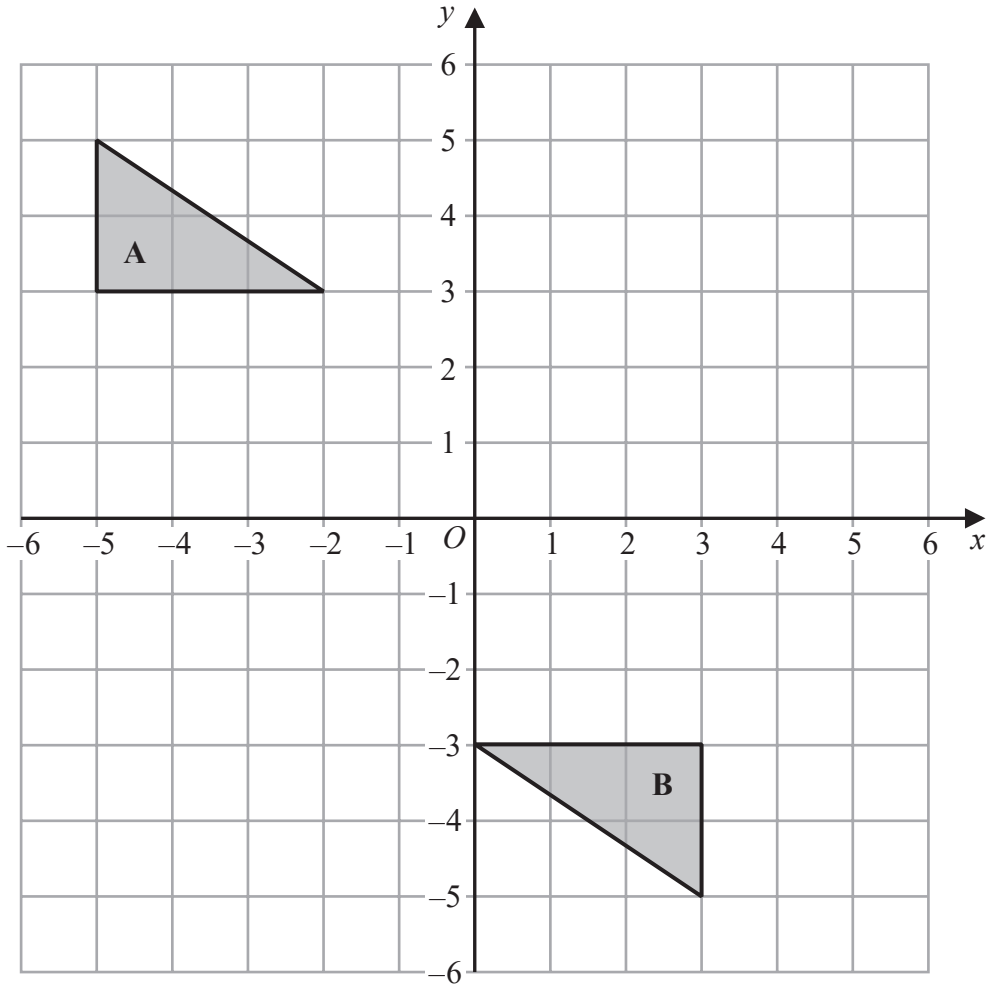
(b) Translate trapezium **T** by the vector $\begin{pmatrix} -1 \\ -3 \end{pmatrix}$
Label the new trapezium **B**.

(1)

(Total for Question 15 is 2 marks)

Summer 2020 Paper 2 Q18

16



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

.....

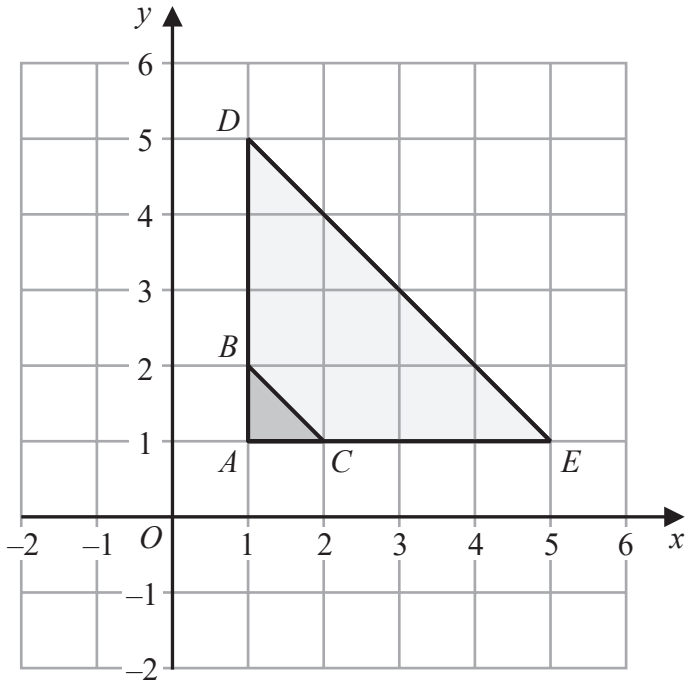
.....

.....

(Total for Question 16 is 2 marks)

Autumn 2021 Paper 3 Q16

17 Here is a diagram showing triangle *ABC* and triangle *ADE*.



Describe fully the single transformation that maps triangle *ABC* onto triangle *ADE*.

.....

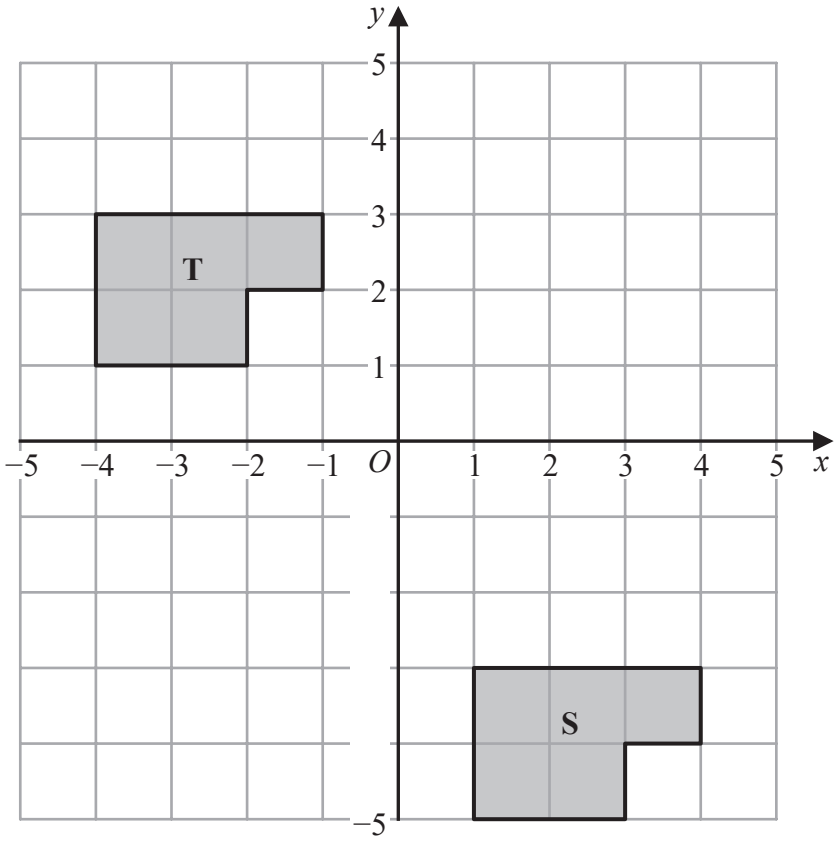
.....

.....

(Total for Question 17 is 2 marks)

Summer 2022 Paper 2 Q22

18



Describe fully the single transformation that maps shape **S** onto shape **T**.

.....

.....

.....

(Total for Question 18 is 2 marks)