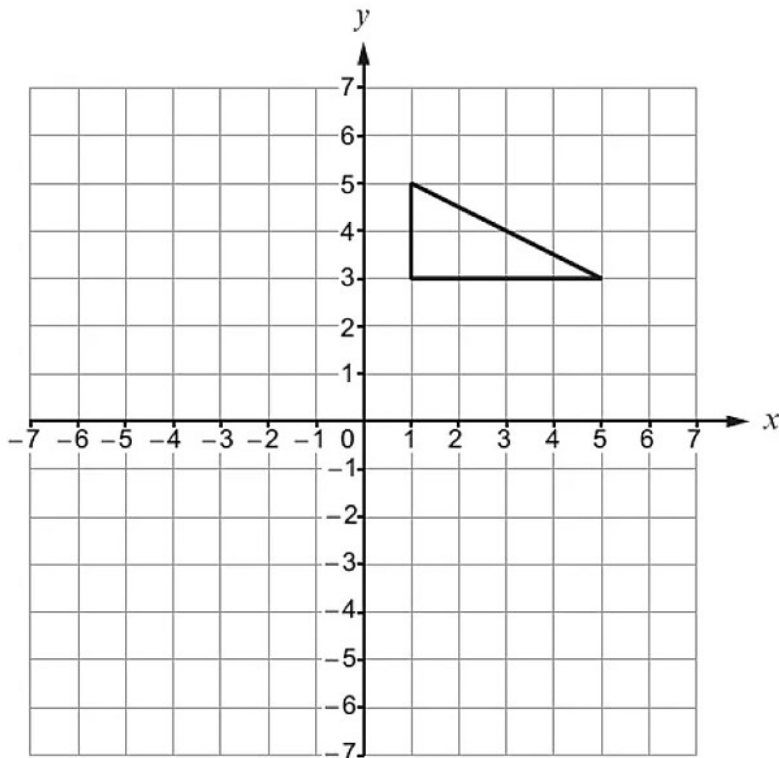


(a) Reflect the triangle below in the  $x$ -axis.

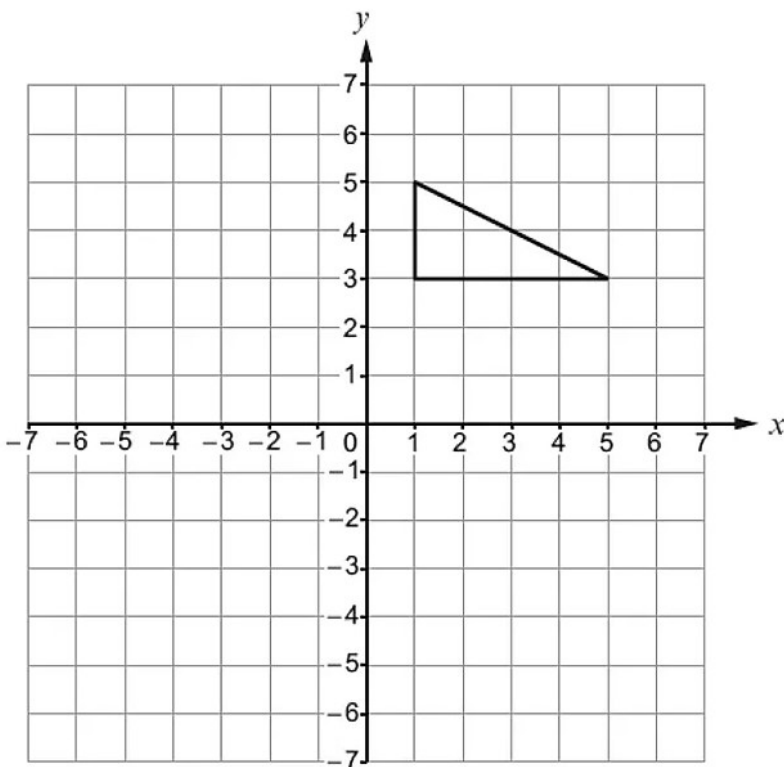
[1]



Intermediate Maths June 2017 P1 Q3c

(c) Translate the triangle below 3 squares to the left and 2 squares down.

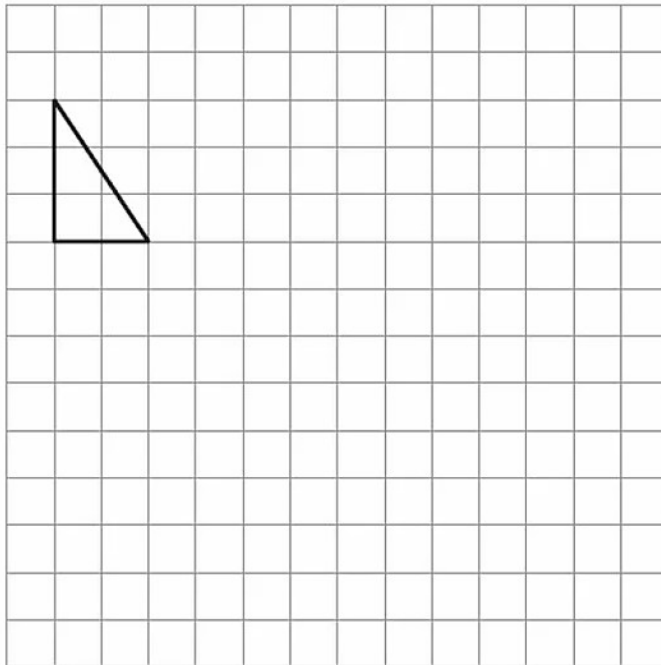
[1]



Intermediate Maths June 2017 P1 Q3b

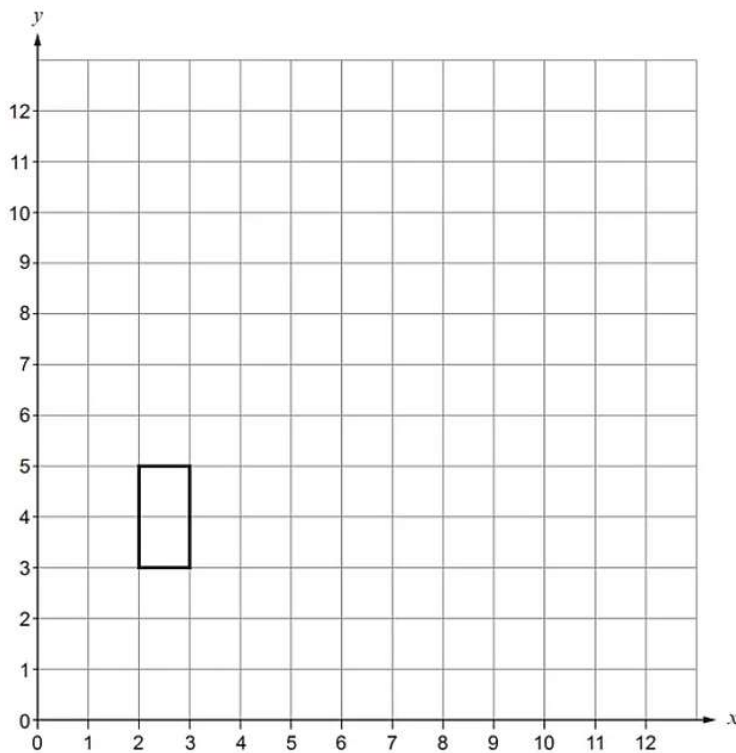
(b) Enlarge the triangle below by a scale factor of 3.

[2]

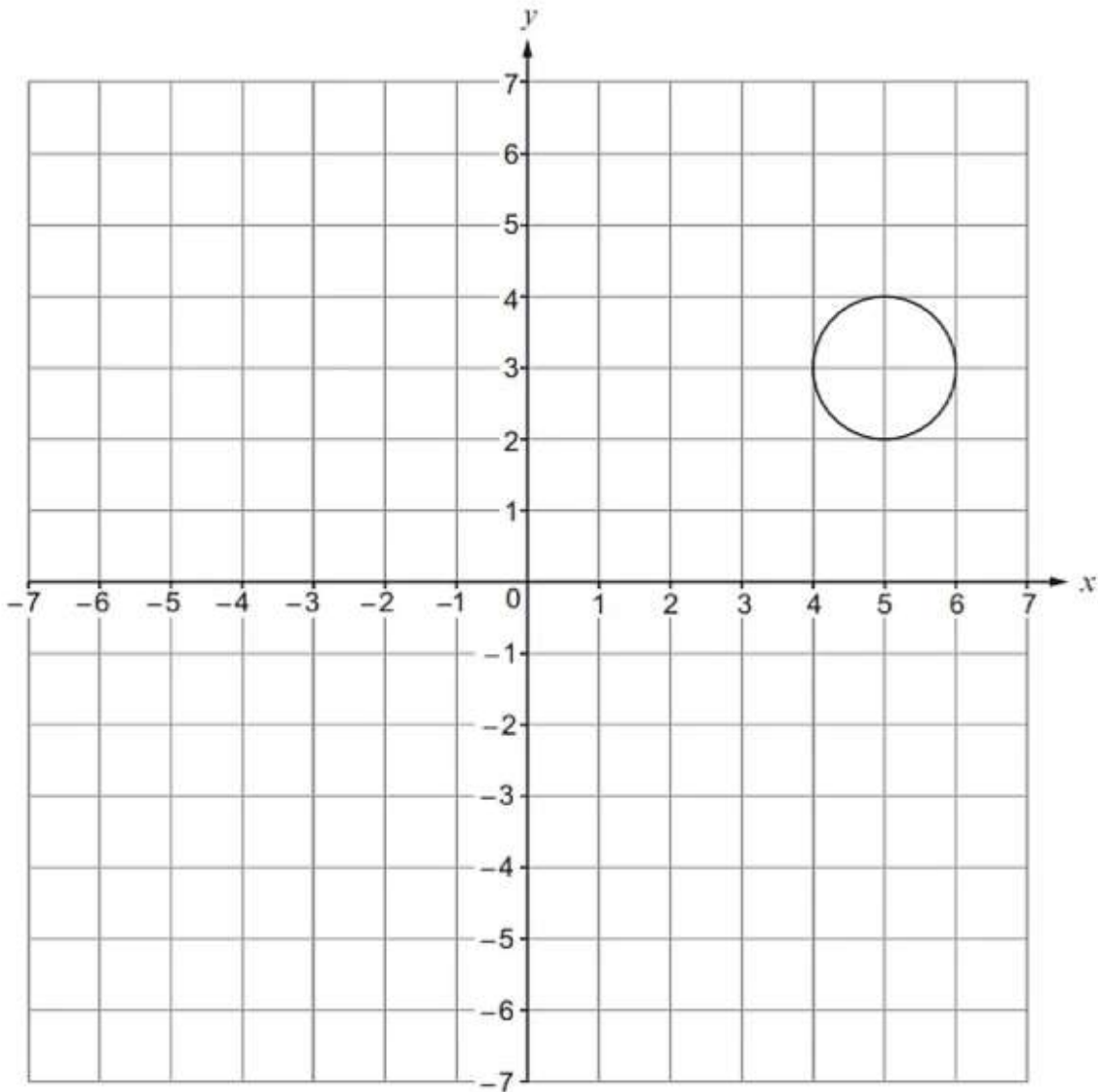


Intermediate Maths Summer 2019 P2 Q7b

(b) Draw an enlargement of the rectangle below, using a scale factor of 3 and centre (1, 2). [3]



(b) The circle shown below is rotated  $90^\circ$  anticlockwise about the origin.



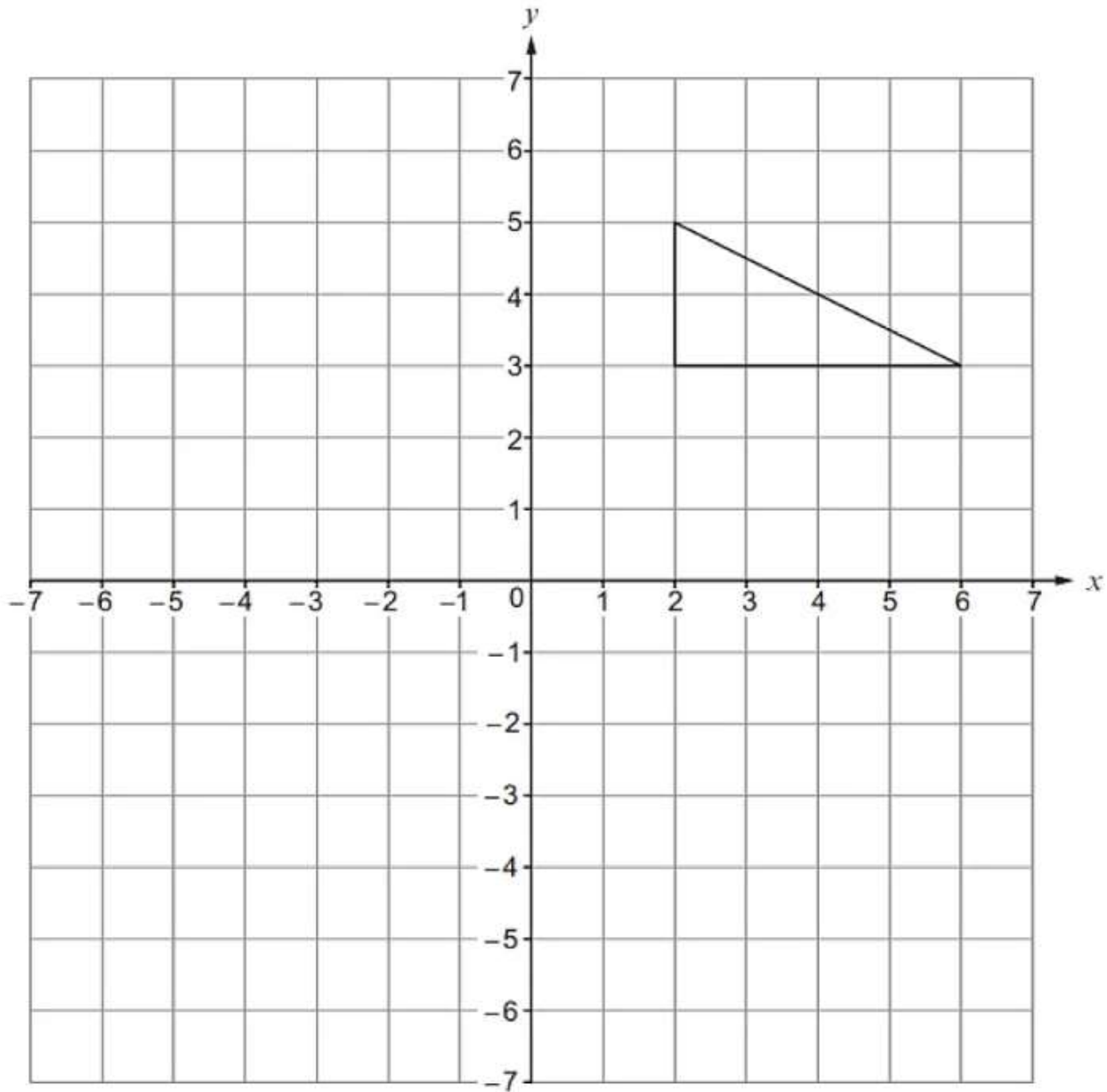
What are the coordinates of the centre of the circle at its new position?  
Circle the correct answer.

[1]

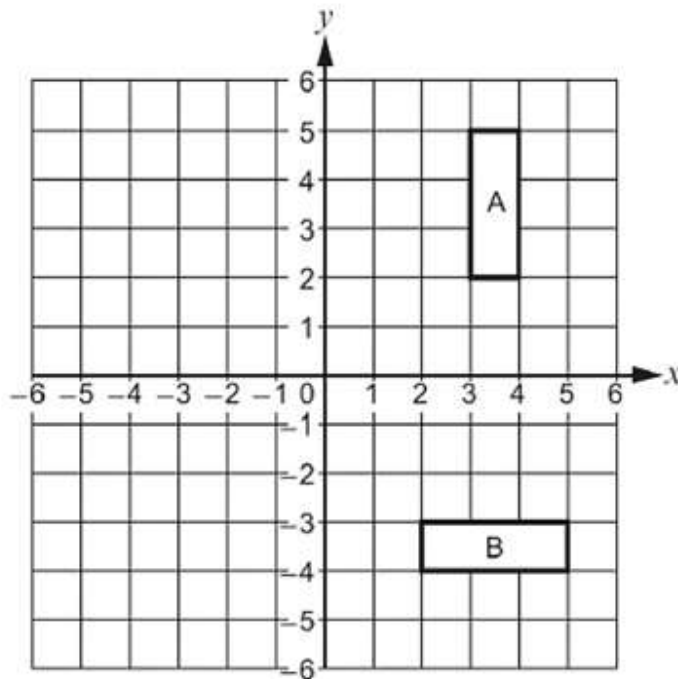
- (3, -5)      (-5, -3)      (-3, -5)      (-3, 5)      (3, 5)

- (a) Reflect the triangle in the  $x$ -axis.  
Then translate the **reflected triangle** 5 squares left and 4 squares up.

[2]

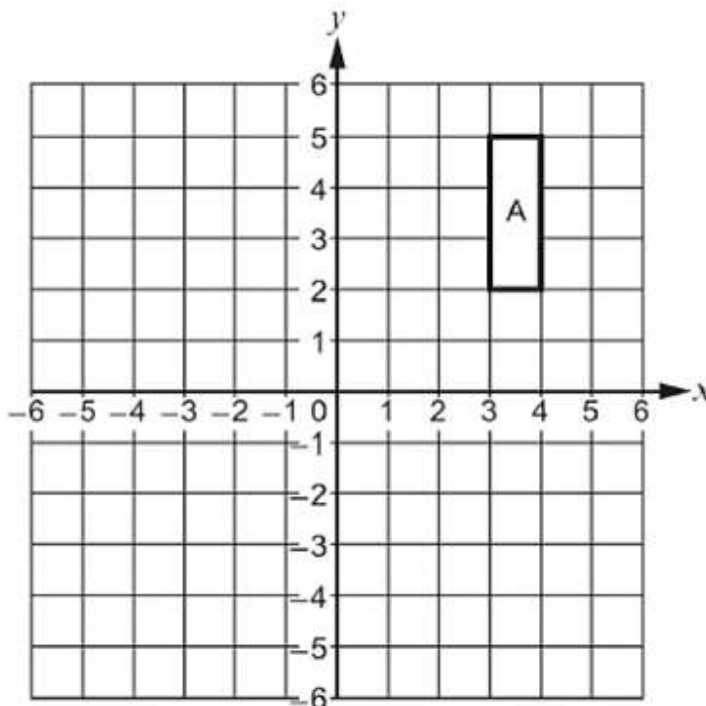


(b) Describe **fully** the transformation that transforms shape A onto shape B. [3]

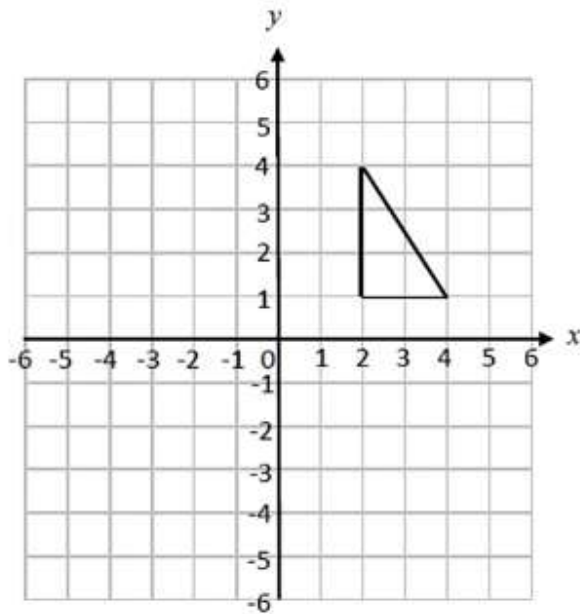


(a) Reflect the shape A in the line  $x = 1$ .

[2]



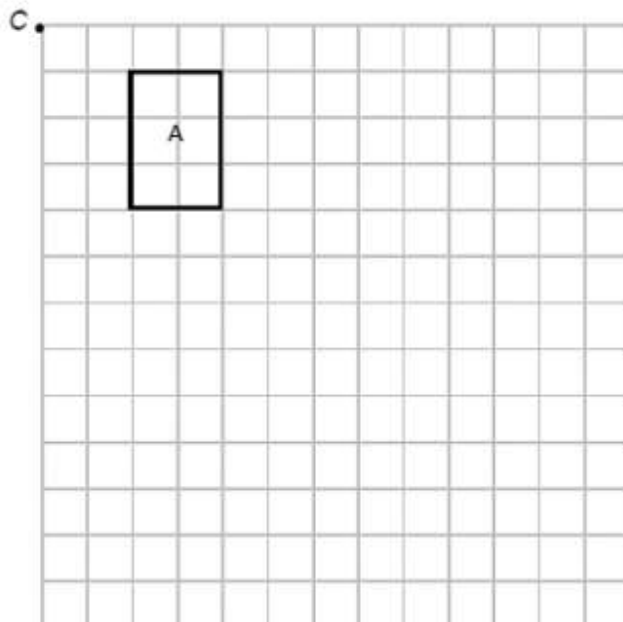
[2]



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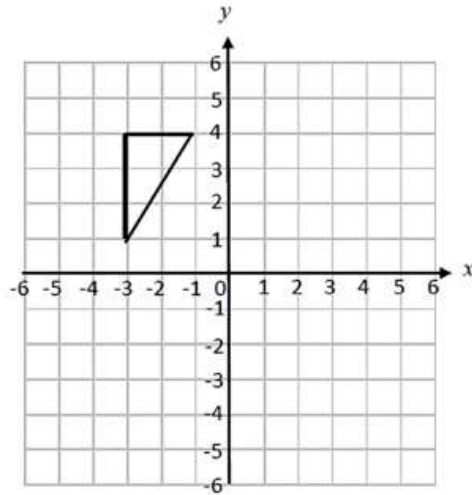
Intermediate Maths Sample 2 P2 Q9b  
(b) Enlarge rectangle A using centre C and scale factor 2.

[2]



(c)(i) Translate the triangle using the column vector  $\begin{pmatrix} 5 \\ -2 \end{pmatrix}$ .

[1]



(ii) Write down the column vector that will **reverse** the translation in part (i).

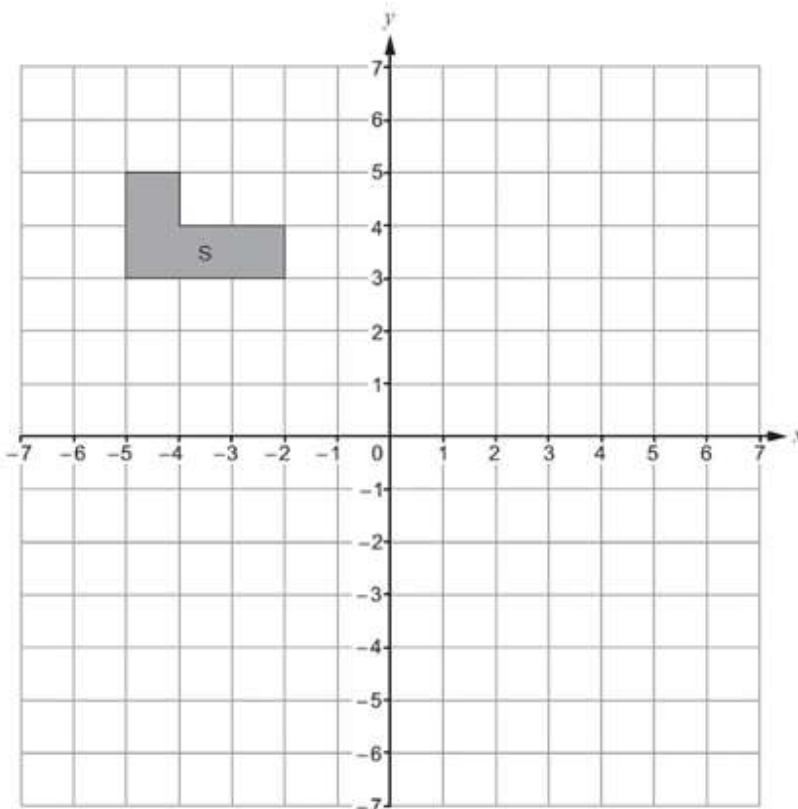
[1]

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Intermediate Maths Summer 2018 P1 Q9a

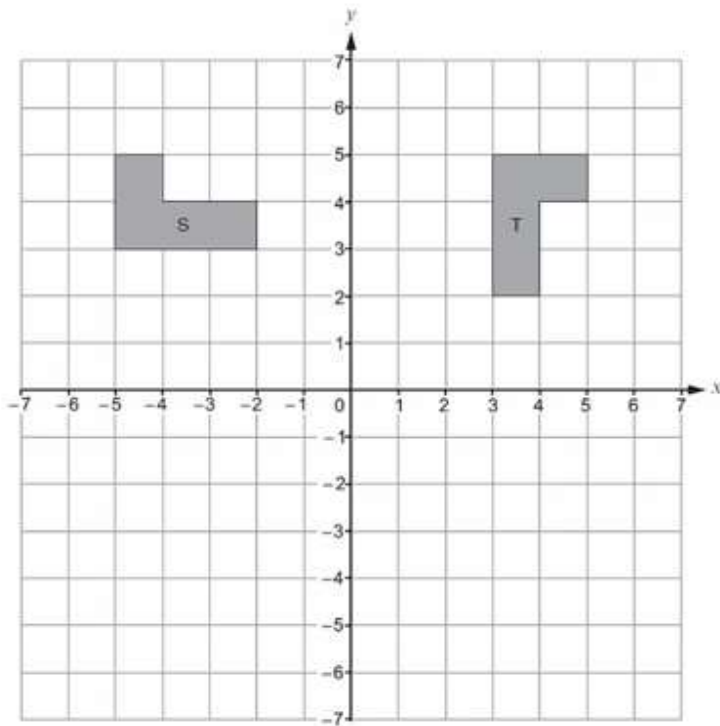
(a) Reflect the shape S in the line  $y = 1$ .

[2]



Intermediate Maths Summer 2018 P1 Q9b

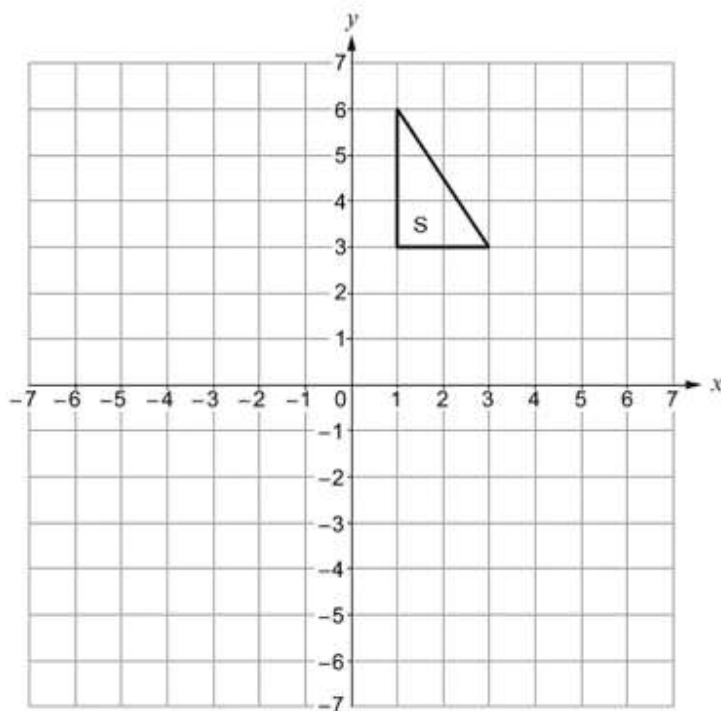
(b) Describe fully the single transformation that transforms shape S to shape T. [3]



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Intermediate Maths Nov 2016 P2 Q11a

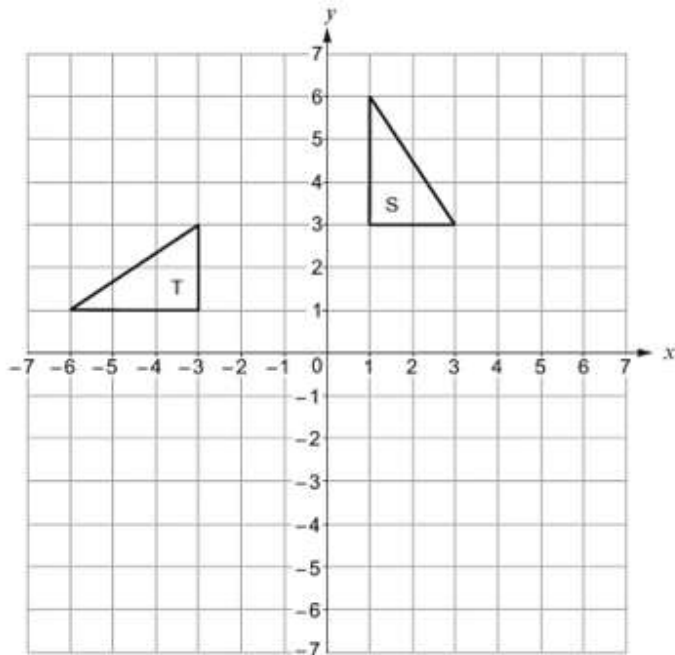
(a) Reflect the triangle S in the line  $y = 2$ . [2]





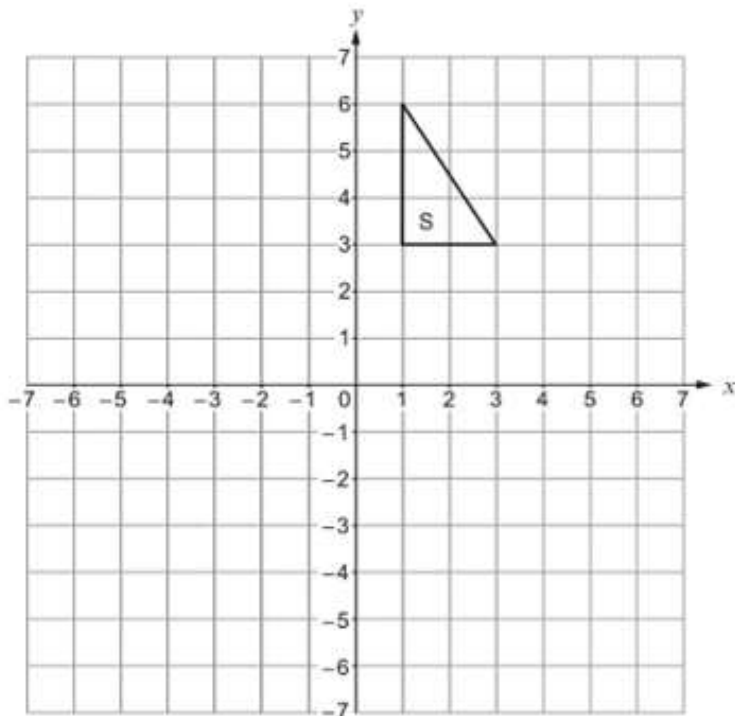
Intermediate Maths Nov 2016 P2 Q11b

(b) Describe fully a single transformation that transforms triangle S onto triangle T. [3]



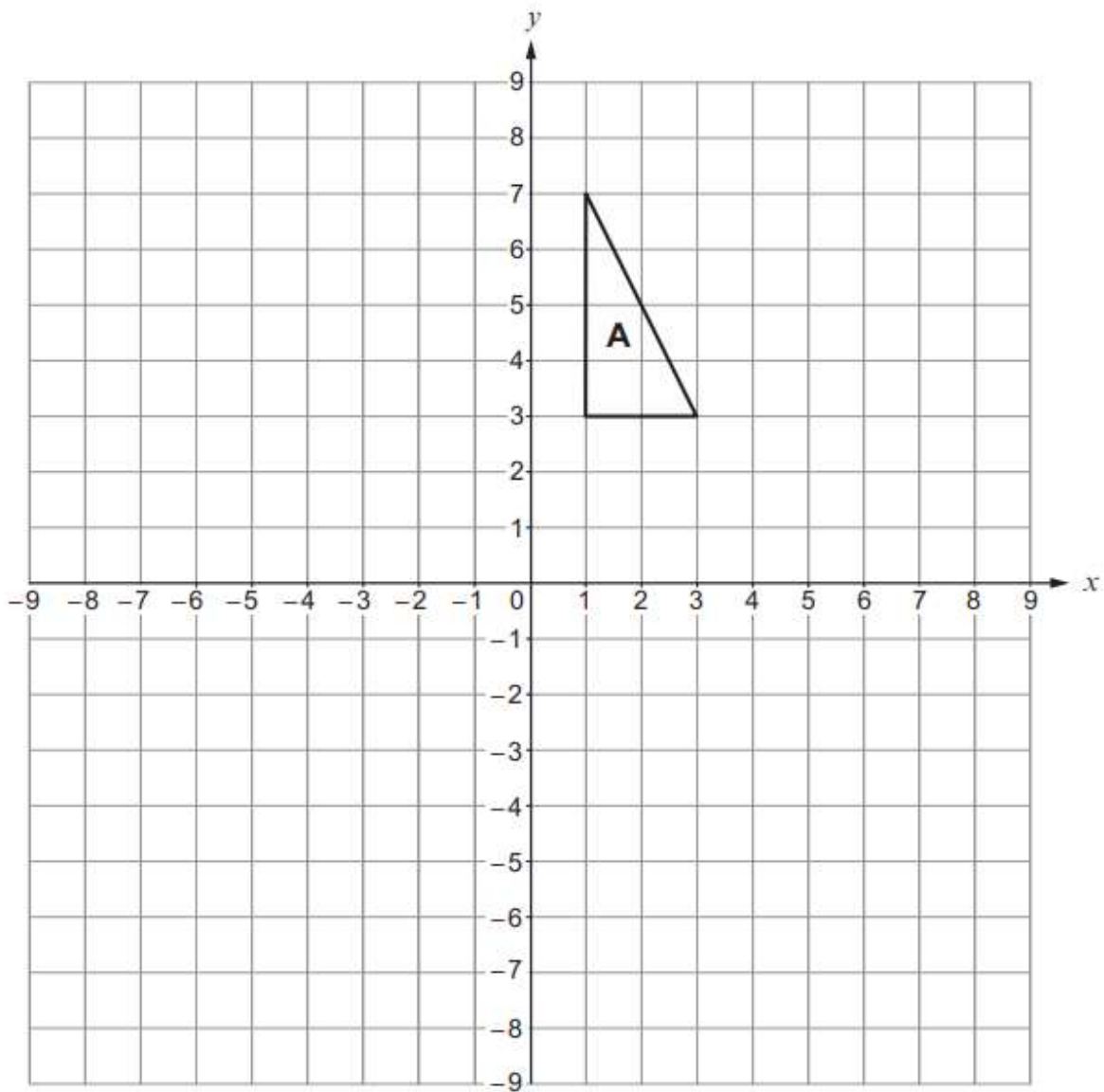
Intermediate Maths Nov 2016 P2 Q11c

(b) (i) Translate the triangle S using the column vector  $\begin{pmatrix} -5 \\ -4 \end{pmatrix}$ . [1]



(ii) Write down the column vector that will reverse the translation in part (i). [1]

(a) Rotate triangle A through  $90^\circ$  anticlockwise, about the point  $(-2, 3)$ . [2]



(b) Enlarge triangle B by a scale factor of  $\frac{1}{2}$ , using (0, 0) as the centre of enlargement. [2]

