

WJEC MATHEMATICS

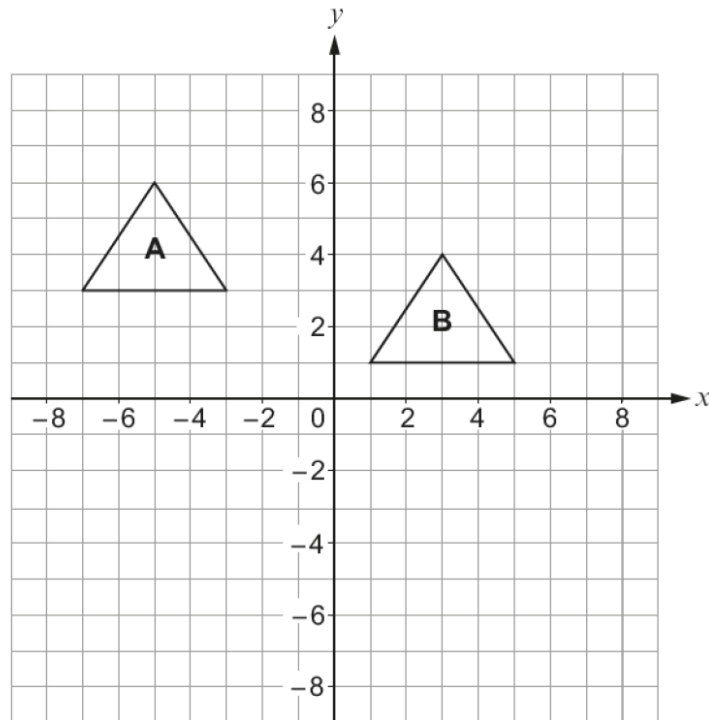
**HIGHER**  
3 TIER TOPICS

**TRANSFORMATIONS**

**@MrGoreMaths.**

Spec 1 – Maths – P1

(c) Shape A is translated onto Shape B.



Which one of the following vectors describes the translation?  
Circle your answer.

[1]

$$\begin{pmatrix} 8 \\ -2 \end{pmatrix}$$

$$\begin{pmatrix} 2 \\ -8 \end{pmatrix}$$

$$\begin{pmatrix} -8 \\ -2 \end{pmatrix}$$

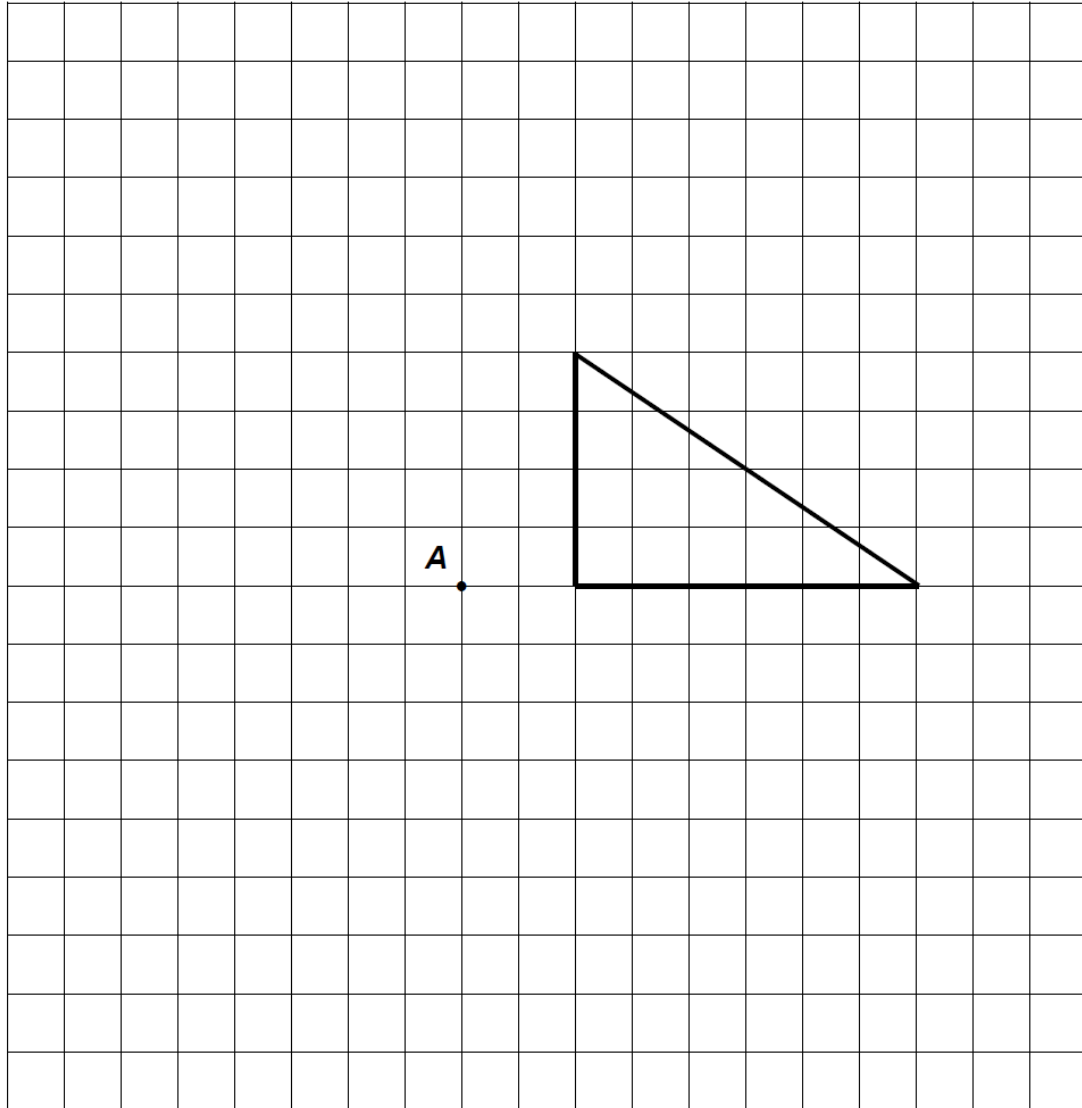
$$\begin{pmatrix} -2 \\ 8 \end{pmatrix}$$

$$\begin{pmatrix} -8 \\ 2 \end{pmatrix}$$

Spec 1 – Maths – P1

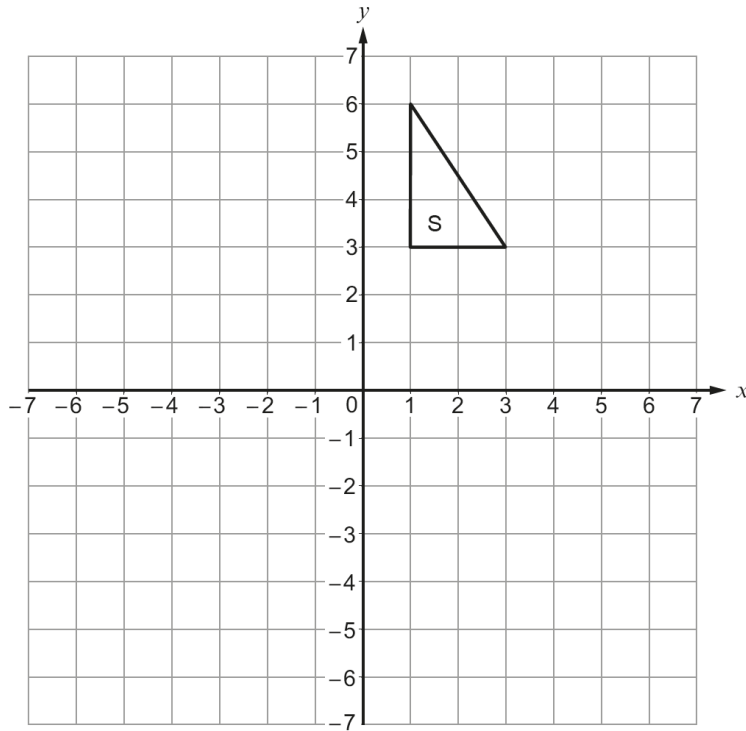
9. On the grid below, draw an enlargement of the given shape using a scale factor of  $\frac{1}{2}$  and centre **A**.

[3]

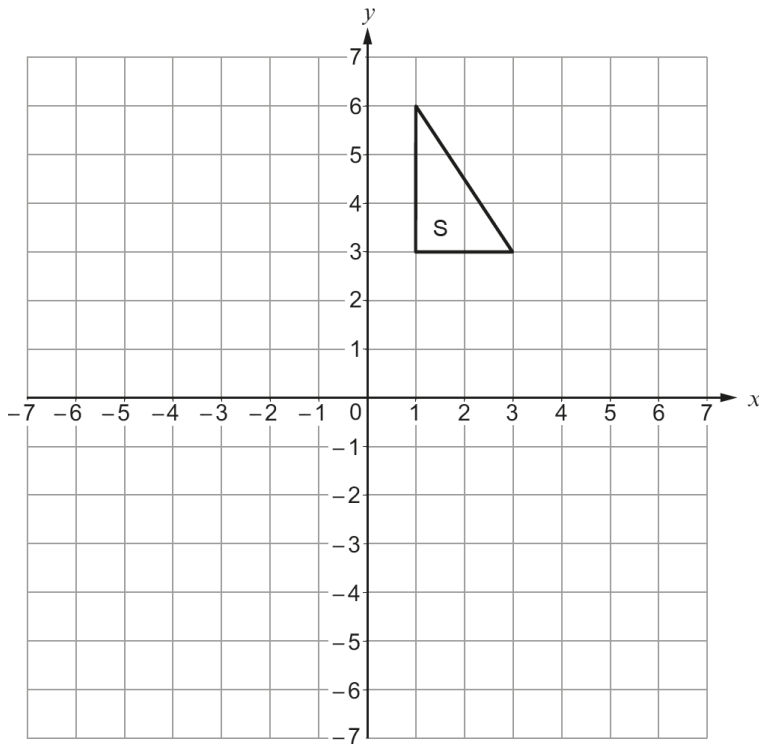


Nov 2016 – Maths – P2

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



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



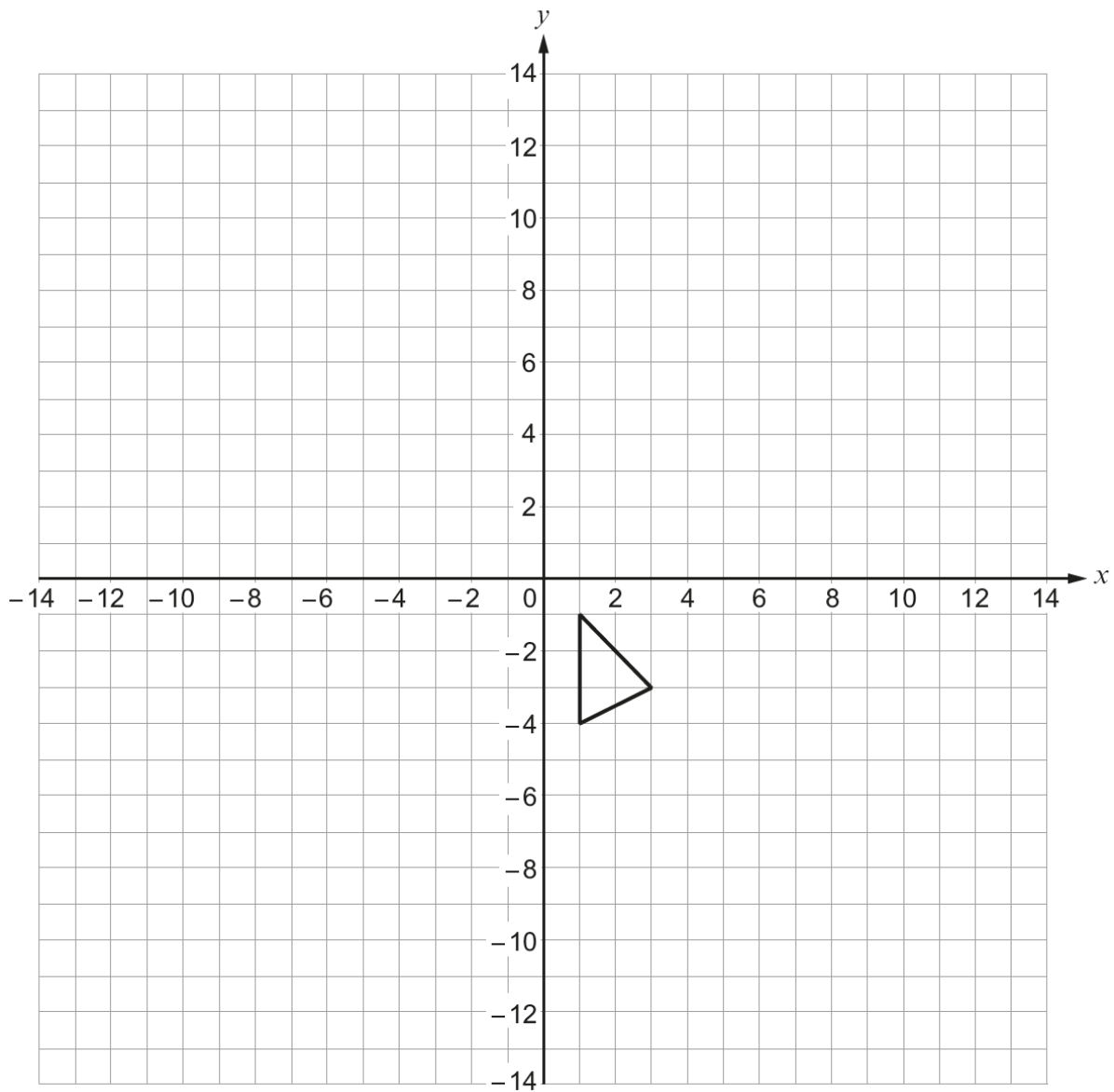
- (ii) Write down the column vector that will reverse the translation in part (i). [1]

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Nov 2016 – Maths – P2

10. Draw the enlargement of the given triangle, using
- a scale factor of  $-2$ ,
  - $(-2, 1)$  as the centre of enlargement.

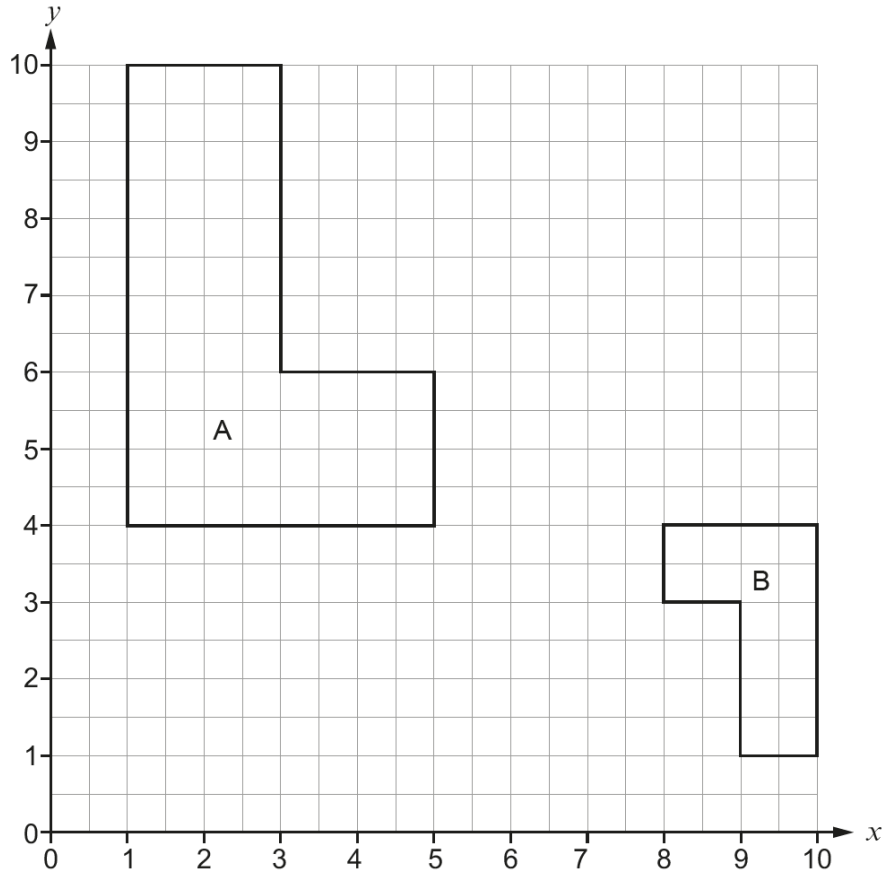
[3]



June 2017 – Maths – P2

15. Describe fully a **single** transformation that transforms shape A onto shape B.

[3]



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