

GCSE – Mathematics only

Topic: Combined Transformations

Tier: Intermediate

Grade: D/E



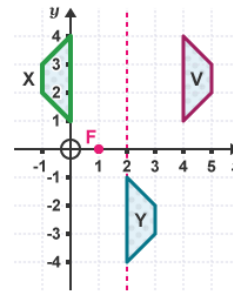
Starter

What do the following mean?

- (a) $\begin{pmatrix} 5 \\ -2 \end{pmatrix}$
- (b) $\begin{pmatrix} -3 \\ 7 \end{pmatrix}$

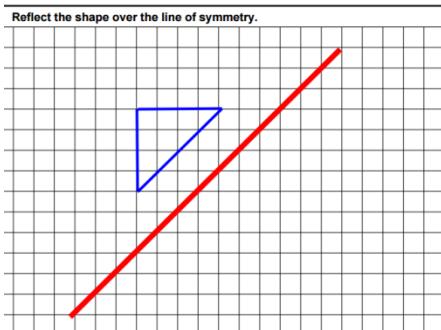
Top Tips!

The three transformations that can be combined are:
reflection, rotation and translation.

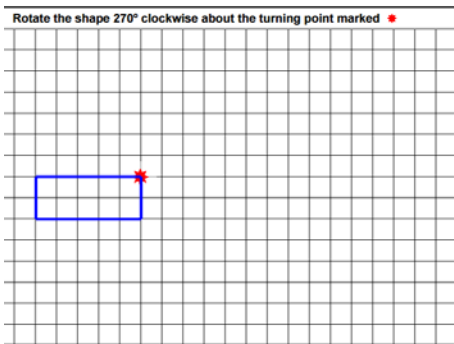


Skills:

Reflect the shape over the line of symmetry.

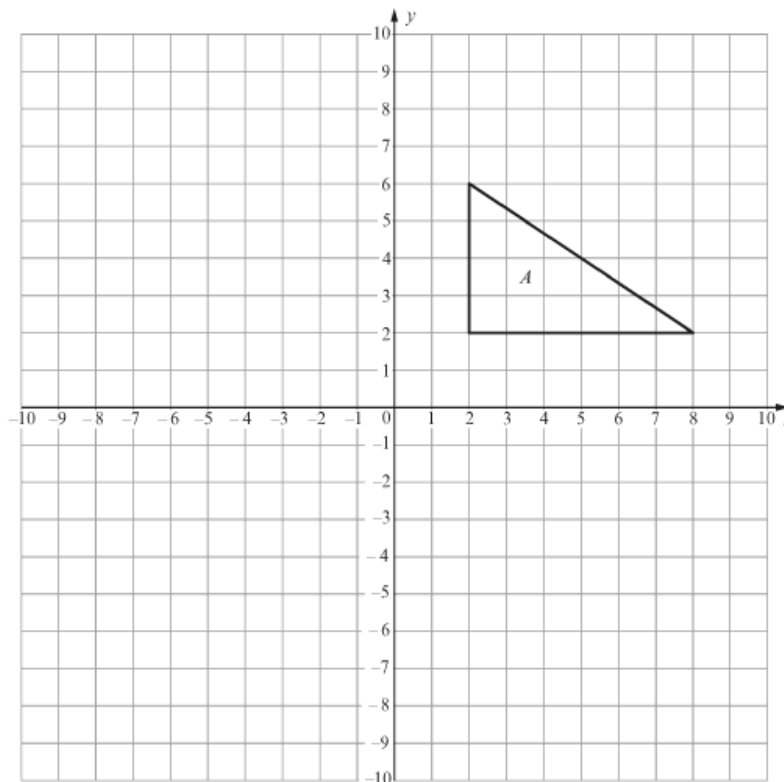


Rotate the shape 270° clockwise about the turning point marked *



Examination Question: 2013 Winter Higher Q5 (4352/02)

Reflect triangle A in the x - axis and label your answer B.
Then rotate your triangle B by 90° clockwise about the origin.
Label your final answer C. [4]



Assessment for Learning

Video / QR code

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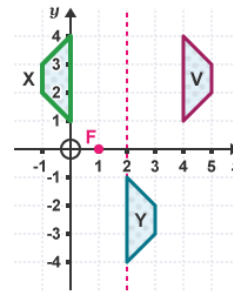
Starter

What do the following mean?

- (a) $\begin{pmatrix} 5 \\ -2 \end{pmatrix}$ 5 squares to the right and 2 down
- (b) $\begin{pmatrix} -3 \\ 7 \end{pmatrix}$ 3 squares to the left and 7 up

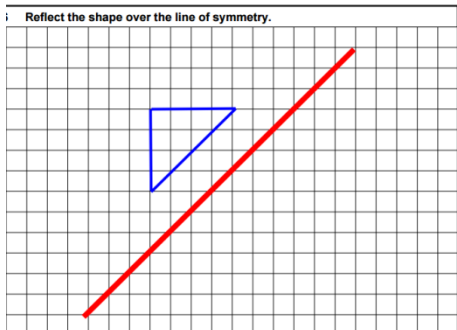
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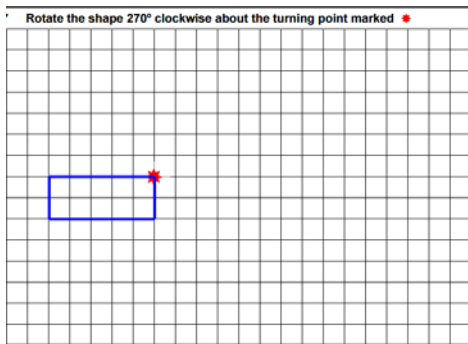


Skills:

Reflect the shape over the line of symmetry.

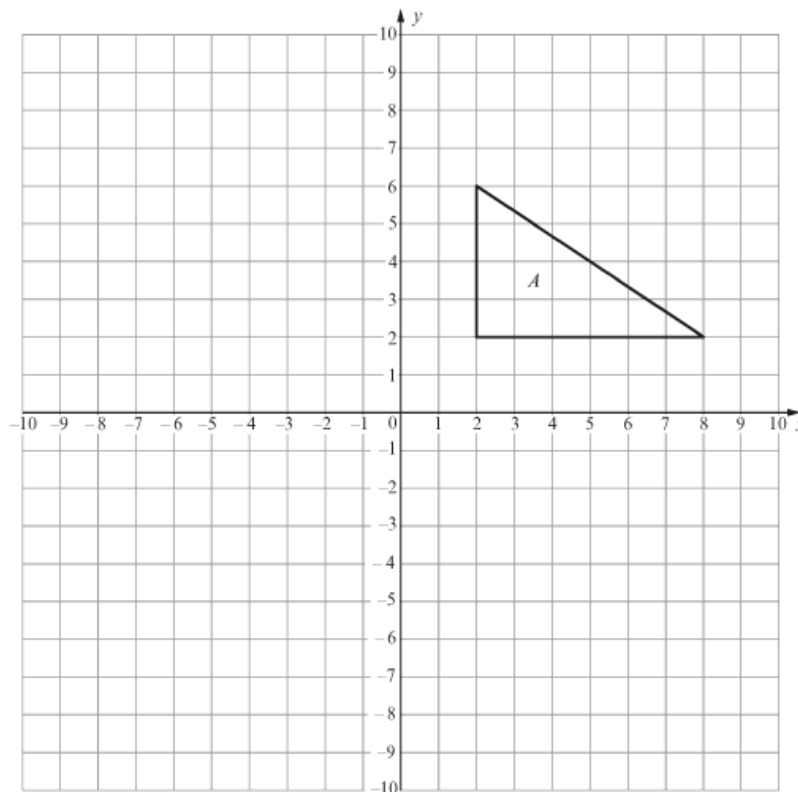


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