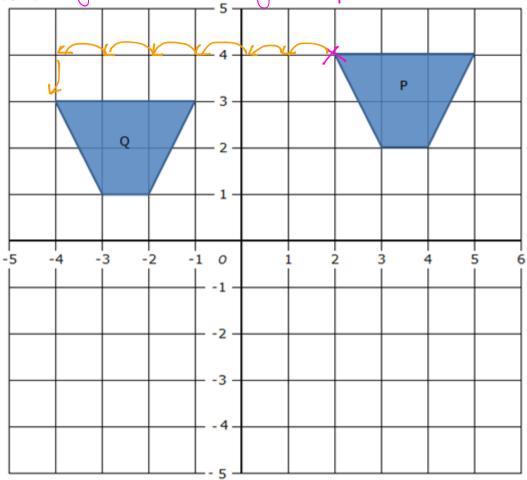


Describe fully the single transformation that will map shape **P** onto shape **Q** 

make sure you know which is the "original" shape

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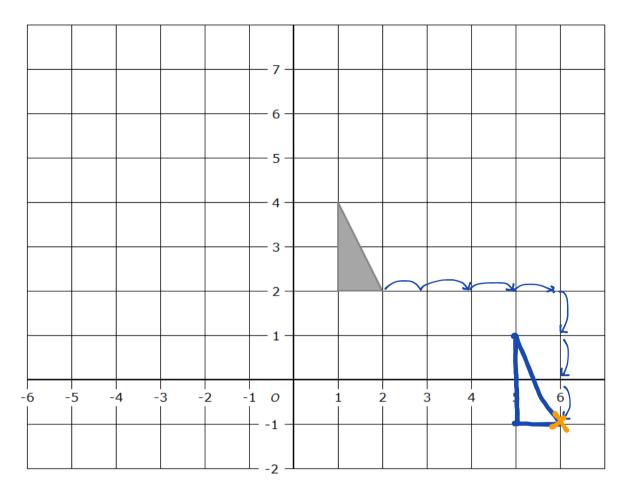


-6 Translation

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(2)

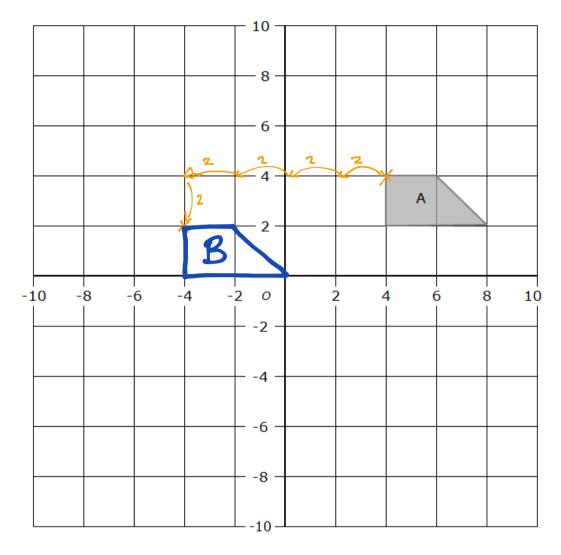




Translate the triangle by the vector  $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$  means  $\begin{array}{c} 4 \\ -3 \end{array}$  (1)



check out the scale on the axis



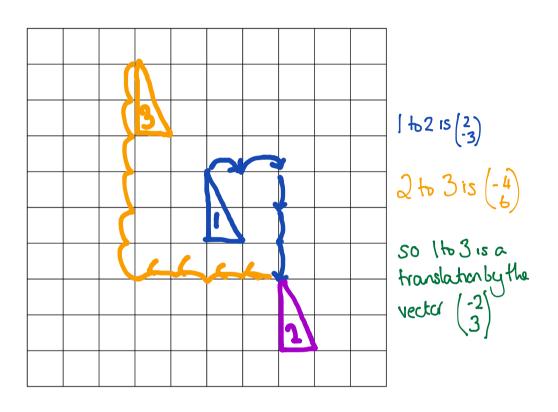
Translate shape A by  $\begin{pmatrix} -8 \\ -2 \end{pmatrix}$   $\begin{cases} 8 \\ 2 \\ 4 \end{cases}$ 

Label the new shape **B**.

(2)



Describe fully the single transformation equivalent to a translation through  $\begin{pmatrix} 2 \\ -3 \end{pmatrix}$  followed by a translation through  $\begin{pmatrix} -4 \\ 6 \end{pmatrix}$ . You may use this grid to help you.



(2)