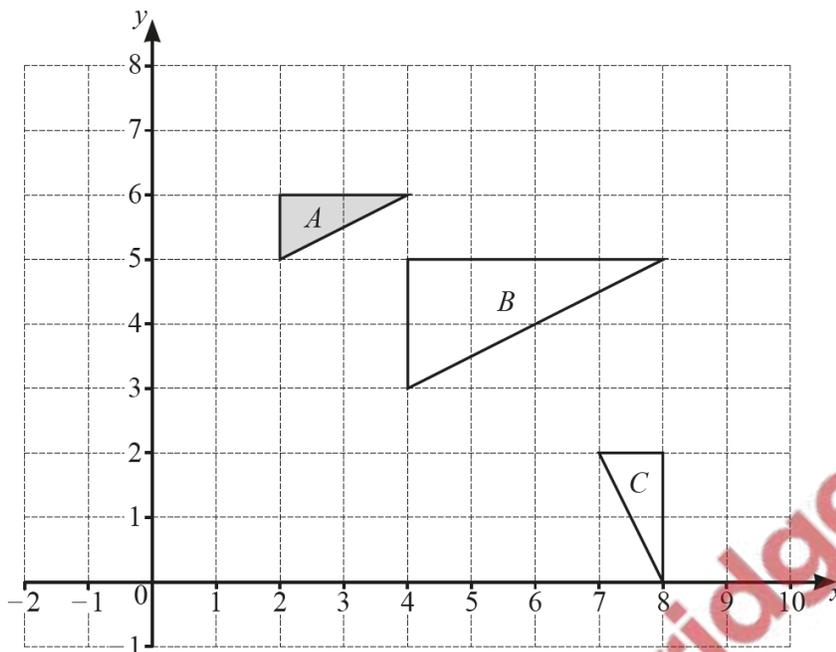


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(a) Describe the **single** transformation that maps

(i) triangle *A* onto triangle *B*

.....
 [3]

(ii) triangle *A* onto triangle *C*.

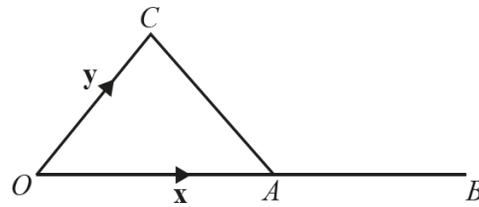
.....
 [3]

(b) Stretch triangle *A* with factor 2 and *y*-axis invariant. [2]

(a) Find the magnitude of the vector $\begin{pmatrix} -6 \\ 8 \end{pmatrix}$.

..... [2]

(b)



NOT TO SCALE

The diagram shows a triangle OAC .
 A is the midpoint of OB .
 $\vec{OA} = \mathbf{x}$ and $\vec{OC} = \mathbf{y}$.

Find \vec{CB} in terms of \mathbf{x} and \mathbf{y} .

$\vec{CB} =$ [1]

