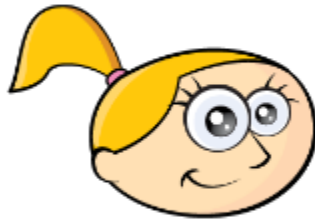


Eva is drawing a trapezium.

She wants her final shape to look like this:



Eva uses the coordinates  $(2, 4)$ ,  $(4, 5)$ ,  $(1, 6)$  and  $(5, 6)$ .

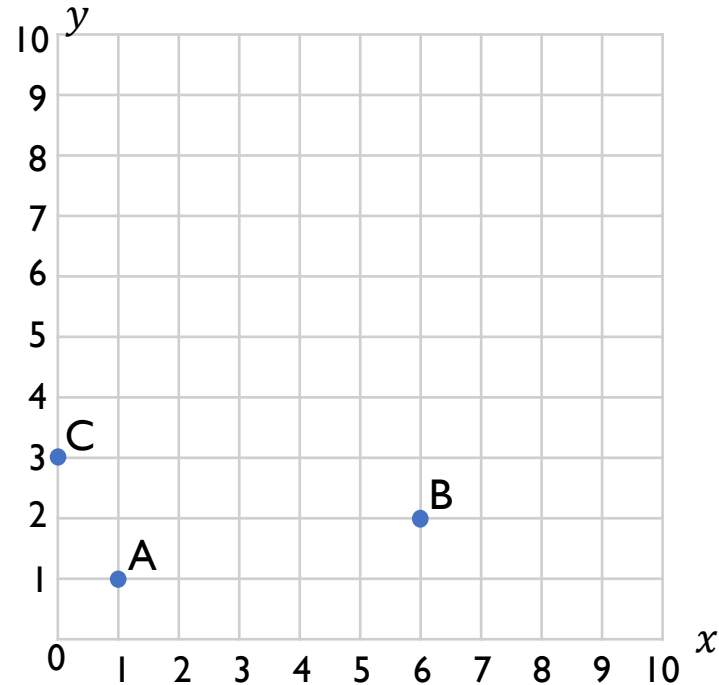
Will she draw the shape that she wants to?

If not, can you correct her coordinates?

Mo has written the coordinates of points A, B and C.

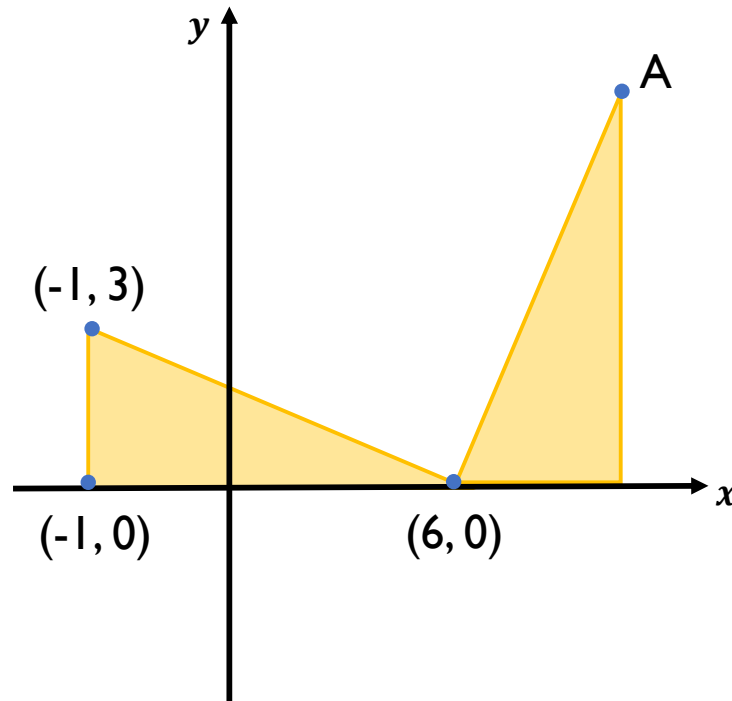
**A** (1, 1)      **B** (2, 7)      **C** (3, 0)

Mark Mo's work and correct his mistakes.



Explain why Mo could not make the same mistake for point A as he made for points B and C.

The diagram shows two identical triangles.  
The coordinates of three points are shown.  
Find the coordinates of point A.

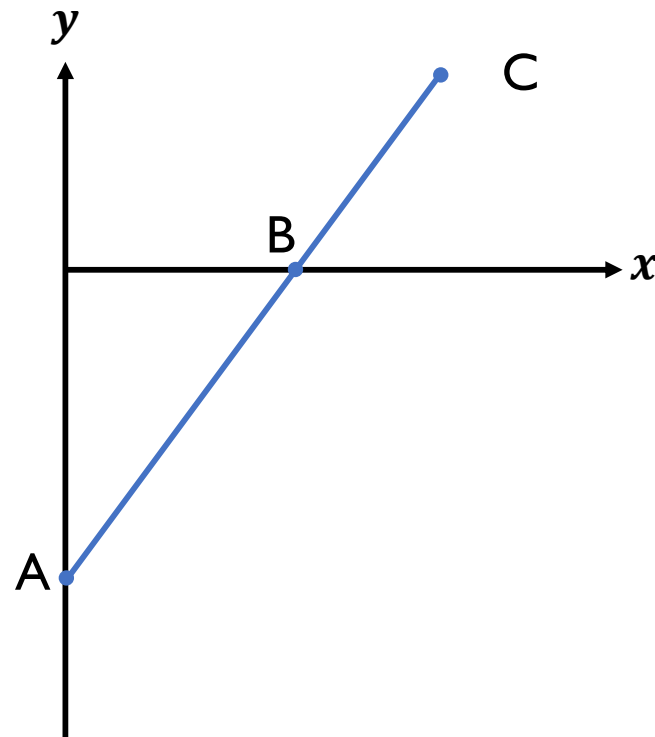


A is the point  $(0, -10)$

B is the point  $(8, 0)$

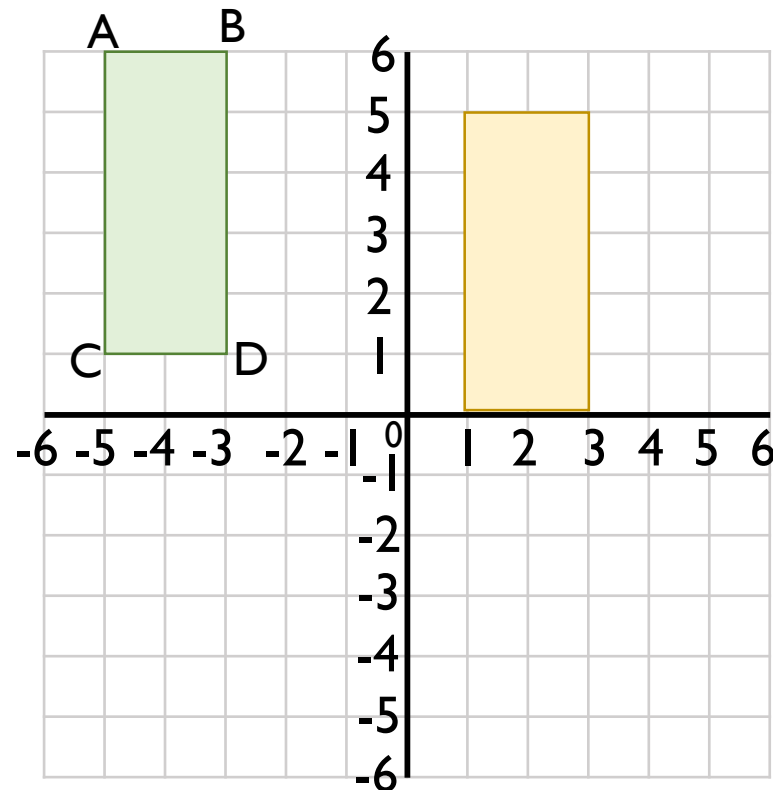
The distance from A to B is two thirds of the distance from A to C.

Find the coordinates of C.



# True or False?

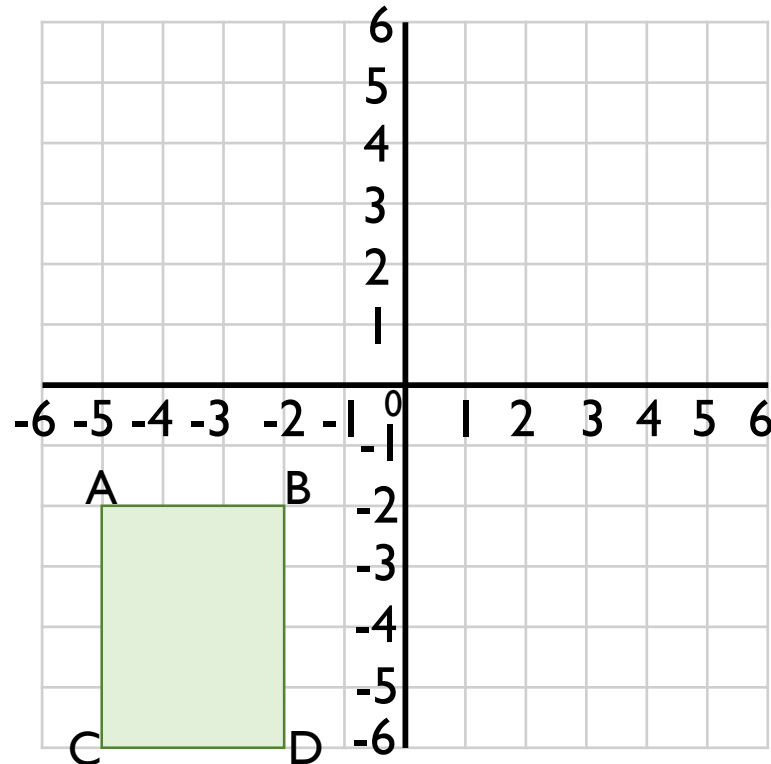
Dexter has translated the rectangle ABCD 6 units down and 1 unit to the right to get to the yellow rectangle.



Explain your reasoning.

Rectangle ABCD is the result of a rectangle being reflected in either the  $x$ - or the  $y$ -axis.

Where could the original rectangle have been? Draw the possible original rectangles on the coordinate grid, and label the coordinates of each vertex.



Annie has reflected the shape in the  $y$ -axis.

Is her drawing correct?

If not explain why.

