

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 $(5, 6)$.

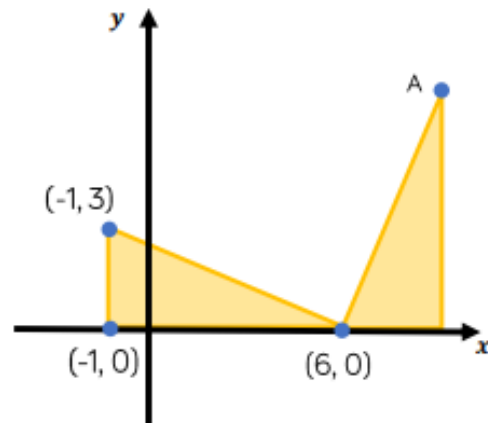
Will she draw the shape that she wants to?

If not, can you correct her coordinates?

The diagram shows two identical triangles.

The coordinates of three points are shown.

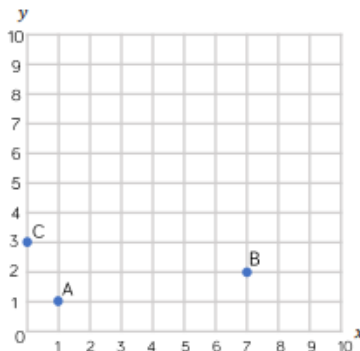
Find the coordinates of point A.



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.



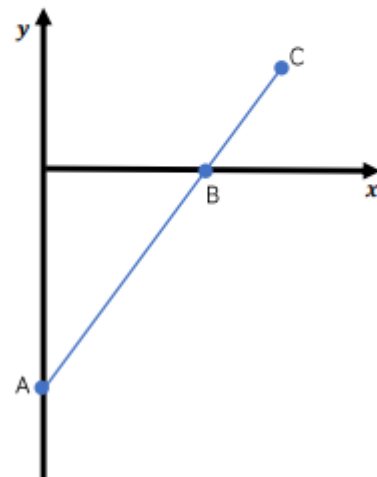
Explain why Mo could not make the same mistake for point A as he made for points B and C.

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.



Work out the missing coordinates of the rectangle.

What is the length of side AB?

