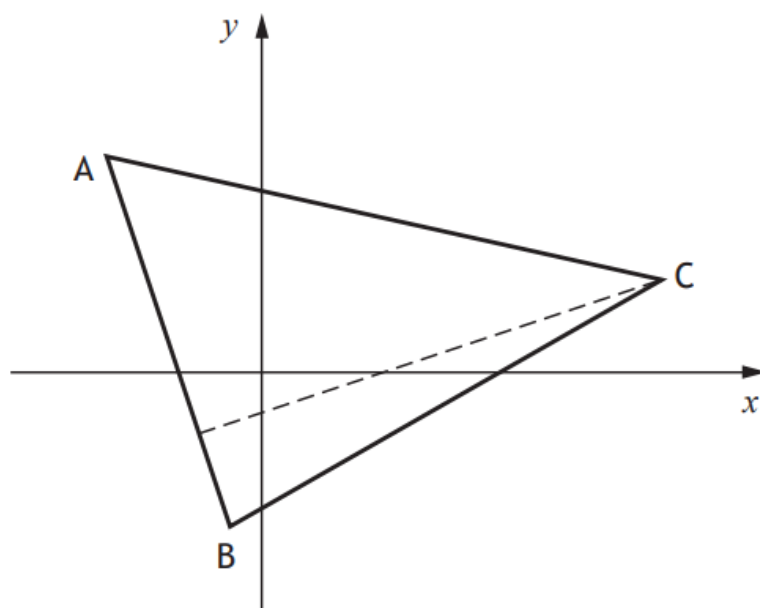


Higher Maths
SQA 2015 Paper 2
Question 1



The vertices of triangle ABC are $A(-5, 7)$, $B(-1, -5)$ and $C(13, 3)$ as shown in the diagram.

The broken line represents the altitude from C.



- (a) Show that the equation of the altitude from C is $x - 3y = 4$. 4
- (b) Find the equation of the median from B. 3
- (c) Find the coordinates of the point of intersection of the altitude from C and the median from B. 2

Answers:

- (a) Calculate gradient of AB, use property of perpendicular lines and coordinates of C.
- (b) $y = 2x - 3$
- (c) $(1, -1)$