

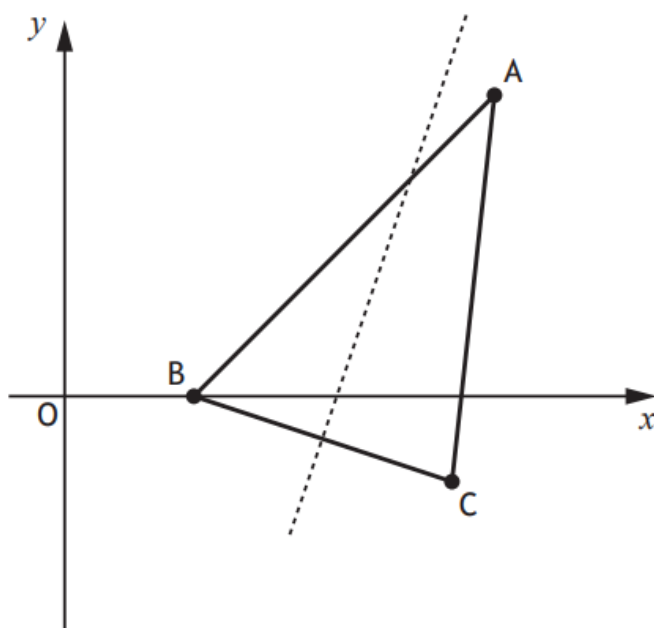
Higher Maths
SQA 2017 Paper 2
Question 1



Triangle ABC is shown in the diagram below.

The coordinates of B are $(3,0)$ and the coordinates of C are $(9,-2)$.

The broken line is the perpendicular bisector of BC.



- (a) Find the equation of the perpendicular bisector of BC. 4
- (b) The line AB makes an angle of 45° with the positive direction of the x -axis.
Find the equation of AB. 2
- (c) Find the coordinates of the point of intersection of AB and the perpendicular bisector of BC. 2

Answers:

- (a) $y = 3x - 19$
- (b) $y = x - 3$
- (c) $(8,5)$