3 The point A has coordinates $(1, 7)$ and the point B has coordinates $(9, 3)$

The line l is the perpendicular bisector of AB

(a) Find an equation of l

(5)

The line l crosses the x-axis at the point C

(b) Find the area of the triangle ABC

(5)

Question 3 continued

(Total for Question 3 is 10 marks)