Total marks — 65

Attempt ALL questions

1. Triangle ABC has vertices A $(-3, 8)$, B $(-1, -6)$ and C $(11, 0)$.

A $(-3, 8)$

L

C $(11, 0)$

B $(-1, -6)$
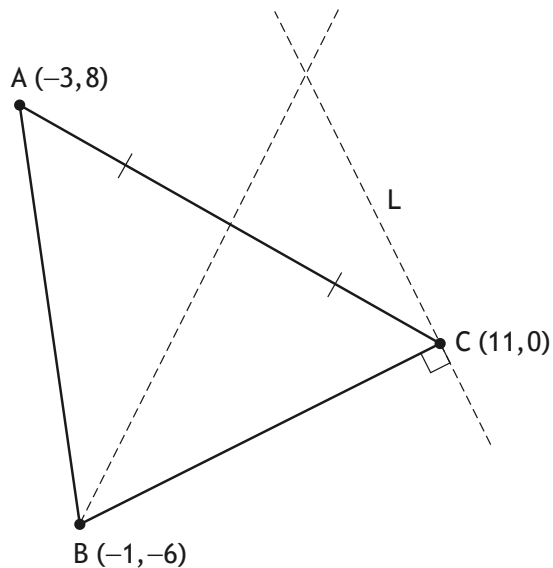
(a) Find the equation of the median through B.   **3**

(b) Find the equation of L, the line perpendicular to BC passing through C.   **3**

(c) Determine the coordinates of the point of intersection of the median through B
     and the line L.   **2**