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

A $(-3, 8)$

L

C $(11, 0)$

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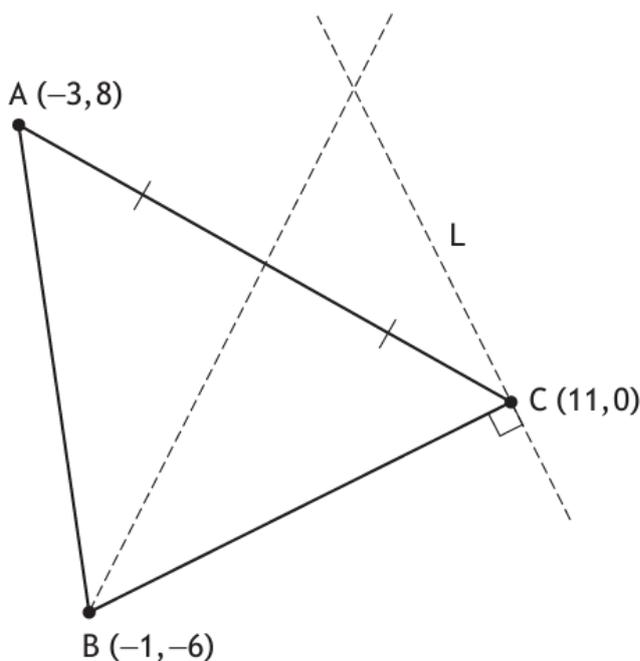
(a) Find the equation of the median through B. **3**

(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**

Answers:

(a) $y = 2x - 4$

(b) $y = -2x + 22$

(c) $\left(\frac{13}{2}, 9\right)$