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 \(x - 3y = 4\).

(b) Find the equation of the median from B.

(c) Find the coordinates of the point of intersection of the altitude from C and the median from B.

**Answers**

(a) Proof

(b) \(y = 2x - 3\)

(c) \((1, -1)\)