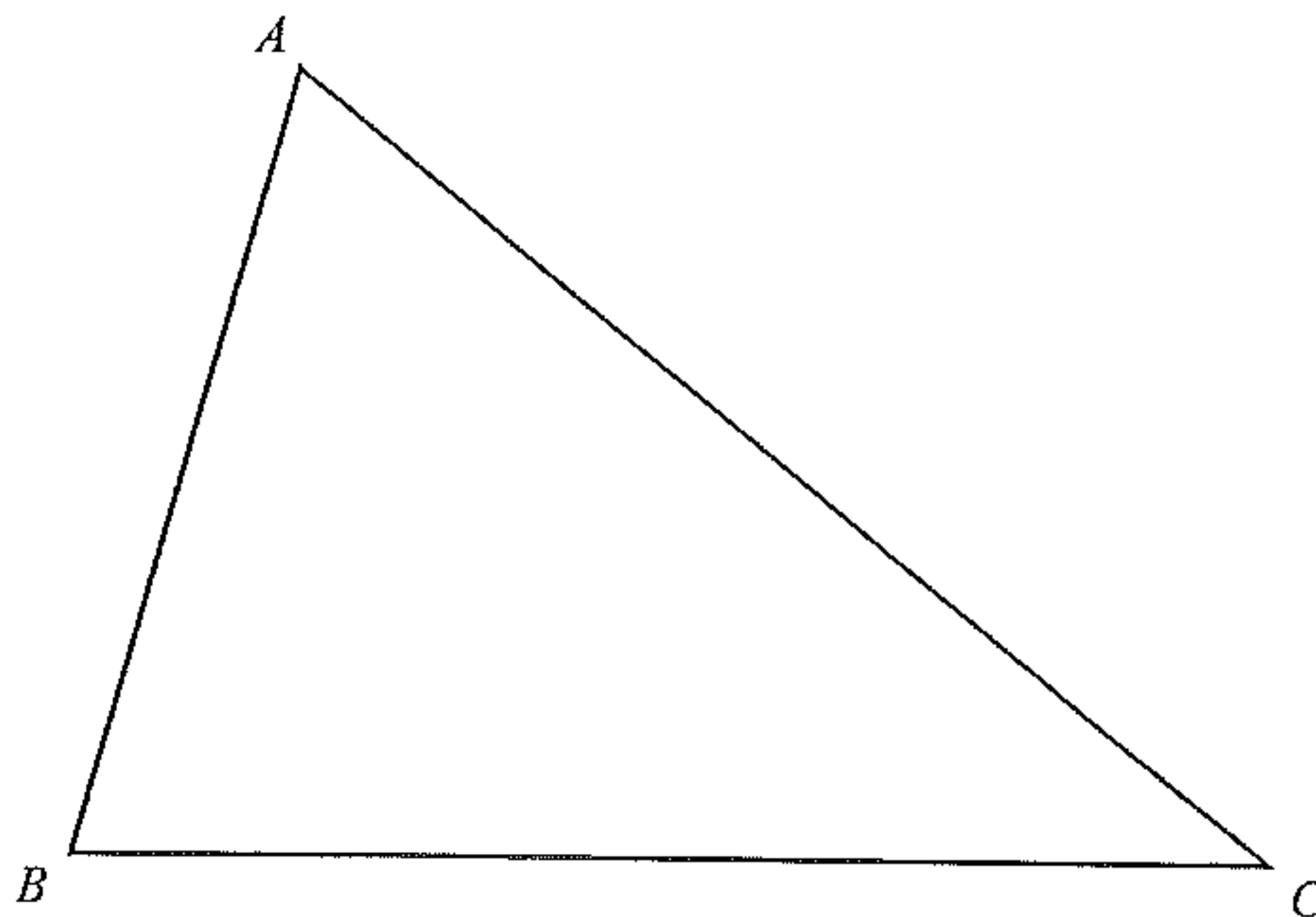# IGCSE – Locus Paper 2 - 4

Oct 05 Paper 2

22

(a) In this part of the question use a straight edge and compasses only.

Leaving in your construction lines,

    (i) construct the angle bisector of angle ACB,   [2]
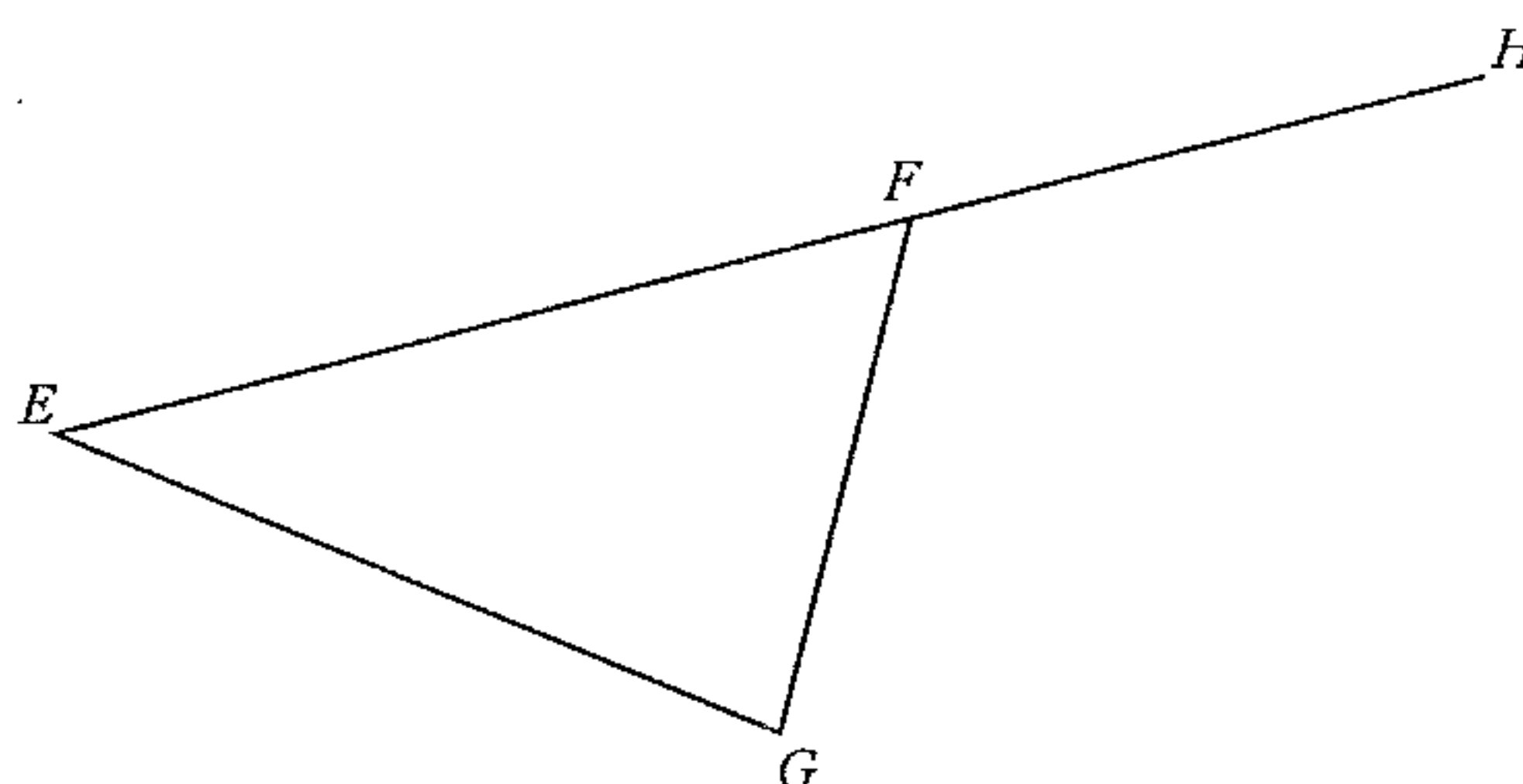
    (ii) construct the perpendicular bisector of AC.   [2]

(b) Draw the locus of all the points inside the triangle ABC which are 7 cm from C.   [1]

(c) Shade the region inside the triangle which is nearer to A than C, nearer to BC than AC and less than 7 cm from C.   [1]

Oct 06 Paper 2

18

The diagram shows a triangle EFG. The side EF is extended to H.

(a) Using a straight edge and compasses only, **showing your construction arcs,** draw

    (i) the locus of points that are equidistant from E and G,   [2]

    (ii) the locus of points that are equidistant from FG and FH.   [2]

(b) Measure accurately and write down the acute angle between the two lines drawn in **part (a)**.

                                                    Answer(b) .... [1]