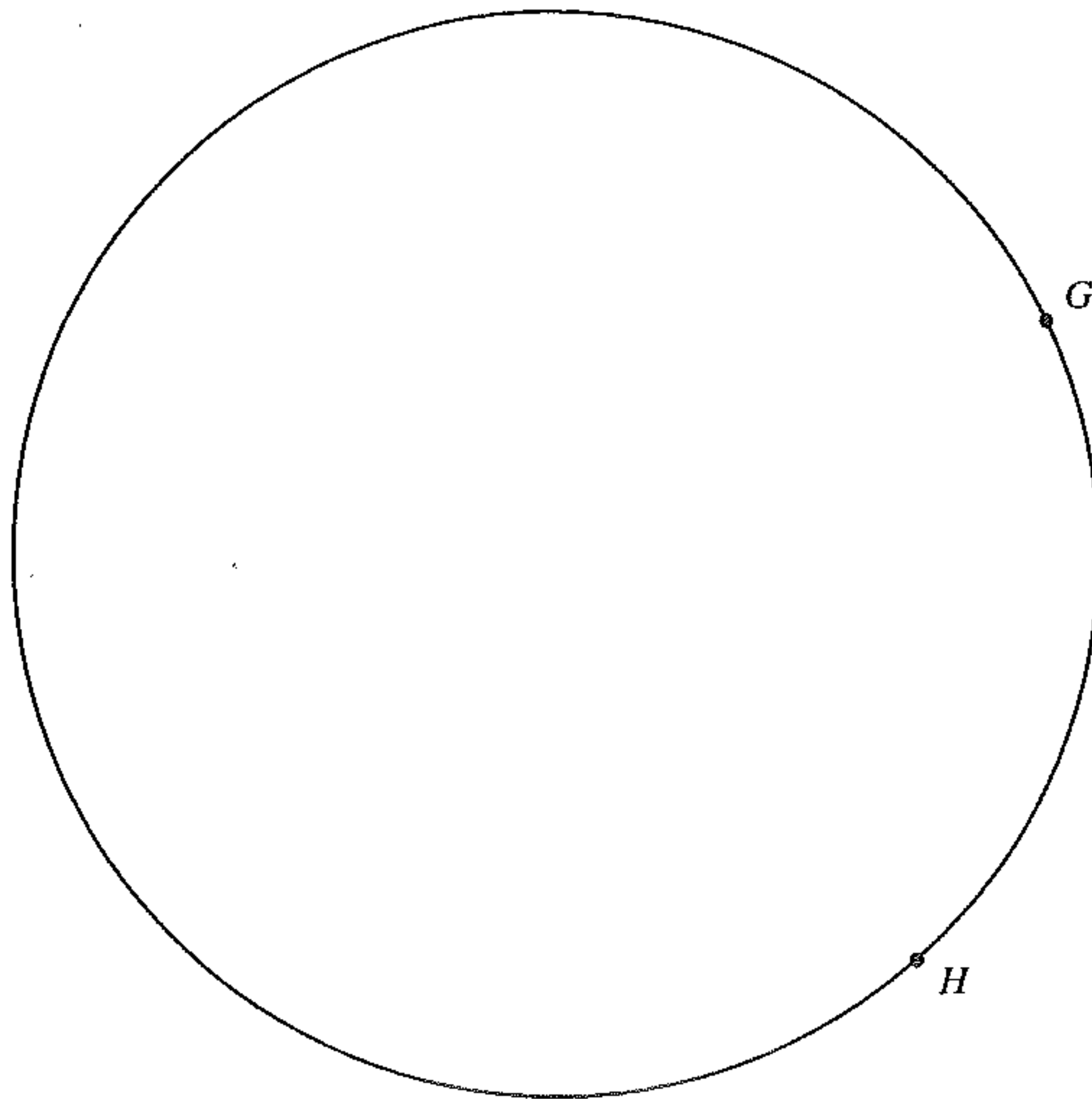
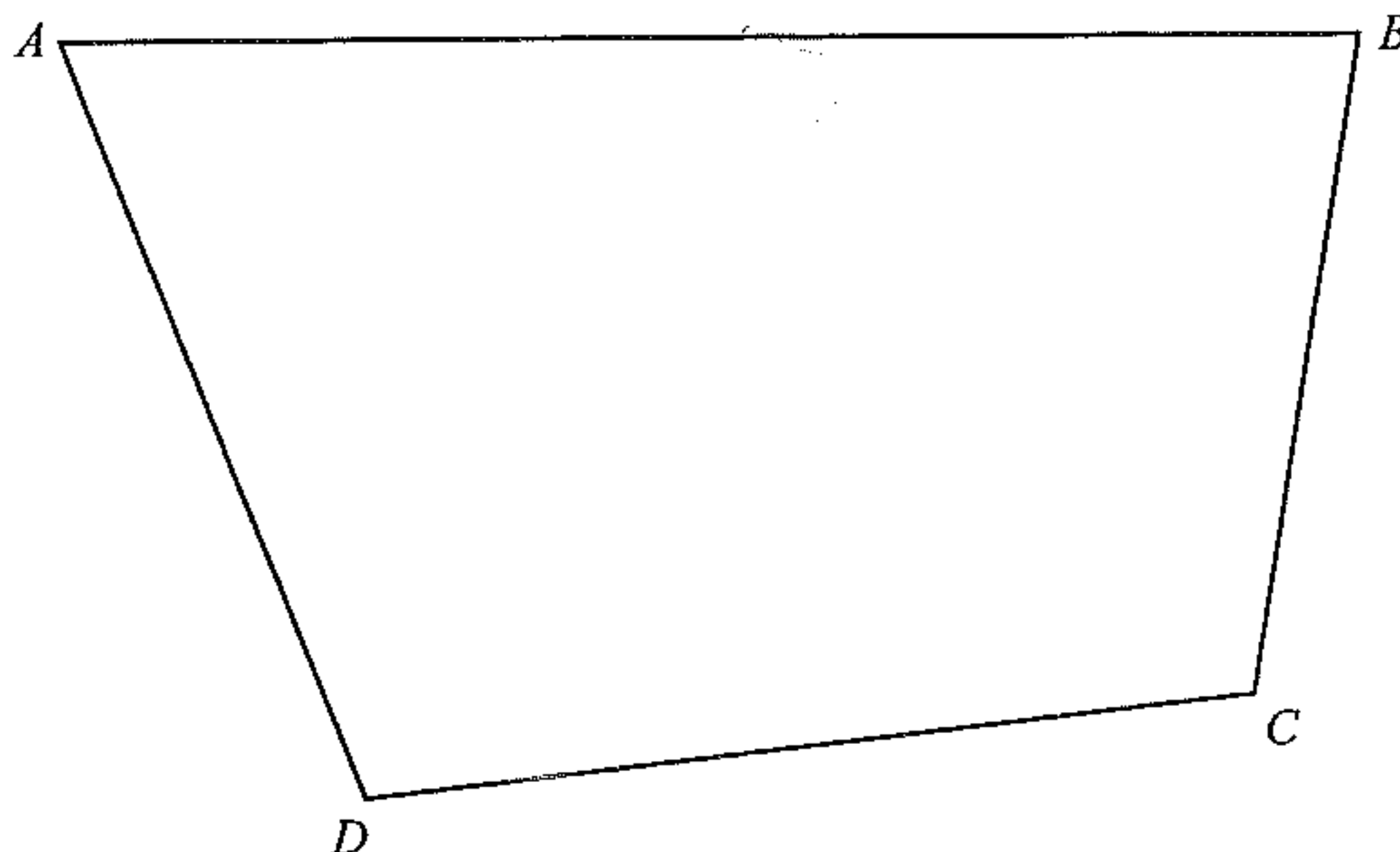


18



Find, by using **accurate** constructions, the region inside the circle which contains the points more than 5 cm from  $G$  and nearer to  $H$  than to  $G$ . Shade this region. [4]

18 The diagram is a scale drawing of a field. The actual length of the side  $AB$  is 100 metres.



(a) Write the scale of the drawing in the form  $1 : n$ , where  $n$  is an integer.

Answer (a) 1 : ..... [1]

(b) In this part use a straight edge and compasses only. Leave in your construction lines.

(i) A tree in the field is equidistant from the point  $A$  and the point  $D$ . Construct the line on which the tree stands. [2]

(ii) The tree is also equidistant from the sides  $BC$  and  $CD$ . After constructing another line, mark the position of the tree and label it  $T$ . [3]