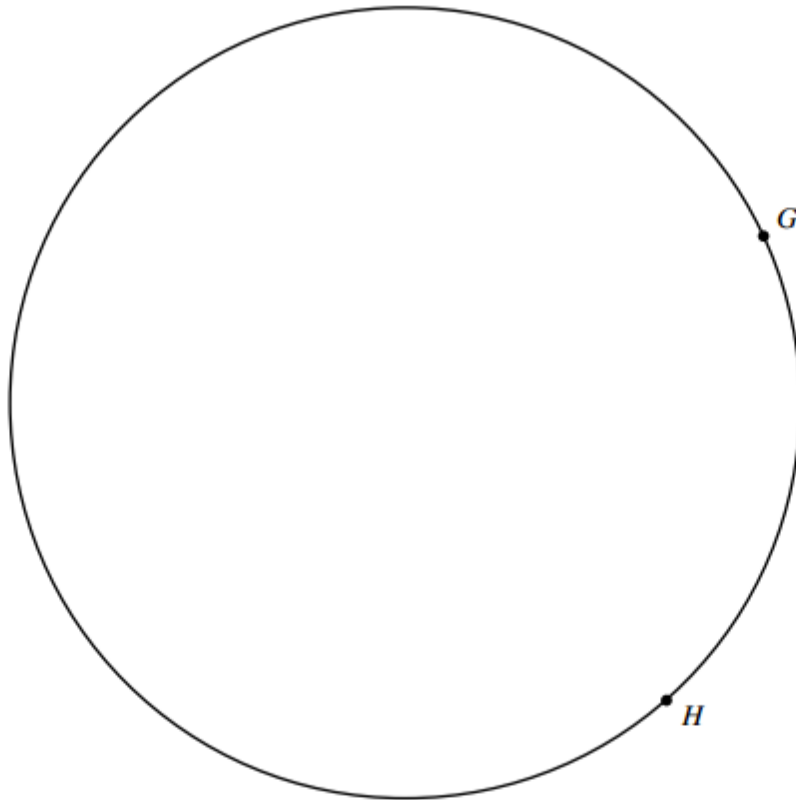


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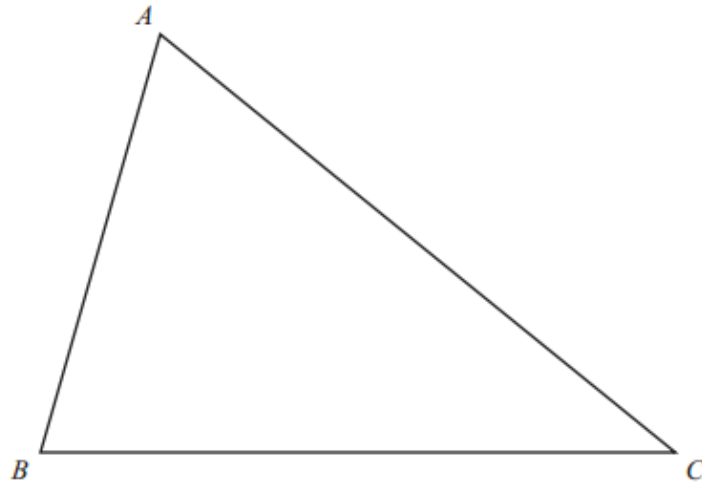
Mathematics Grade 10

Question 1



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]

Question 2

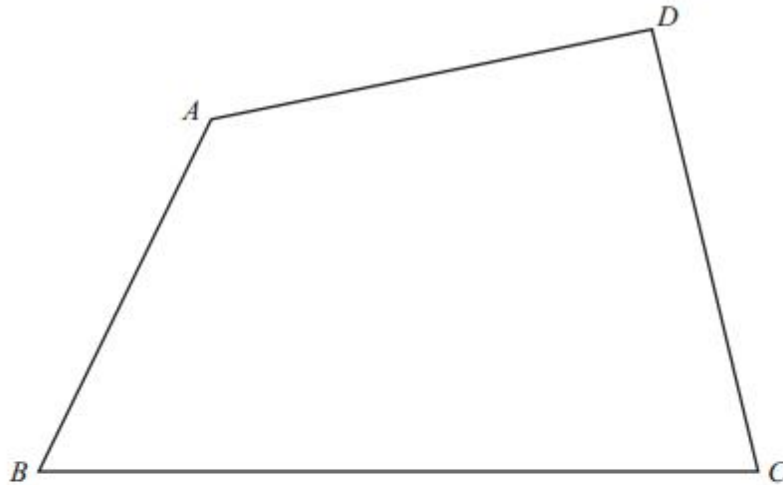


(a) In this part of the question use a straight edge and compasses only.

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]

Question 3



The diagram shows a quadrilateral $ABCD$.

- (a) Draw the locus of points in the quadrilateral which are 5 cm from A . [1]
- (b) Using a straight edge and compasses only, draw the locus of all points inside the quadrilateral which are equidistant from C and D .
Show all your construction lines. [2]
- (c) Shade the region which contains points in the quadrilateral that are more than 5 cm from A and nearer to D than to C . [1]

Question 4

Construct a triangle PQR in which $PQ = 5.8$ cm, $QR = 6.5$ cm, $PR = 4.5$ cm.

Question 5

Construct a right triangle ABC in which $\angle C = 90^\circ$ and $\angle B = 45^\circ$, $CB = 5$ cm.

Question 6

Construct an equilateral triangle in which $AB = BC = CA = 6$ cm. What is the measure of its each angle?

Question 7

Perpendicular through a point not on the line

Show your construction below. Be sure to leave your marks to show that you actually did the construction.

Z •



Question 8

In the triangles below, construct inscribed and circumscribed circles

