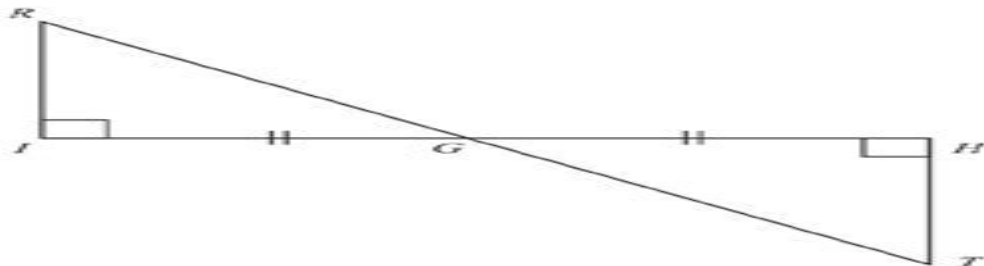


20 (a) From the figure shown below, prove that triangle RIG and triangle THG are congruent to each other.

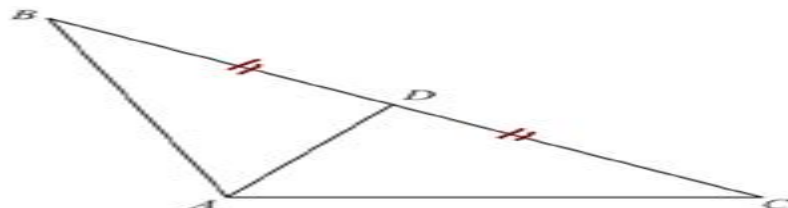


Give reasons at each stage of your working.

In $\triangle RIG$ and $\triangle THG$,
 angle $RIG = \text{angle } THG$ (both 90°)
 $IG = HG$
 angle $RGI = \text{angle } THG$ (Vertically opposite angles)
 So by ASA congruency rule
 $\triangle RIG \cong \triangle THG$

(2)

(b) In the figure shown below, AD is the bisector of BC and angle ABD is not equal to angle DCA , angle BAD is not equal to angle CAD .



If by SAS rule, triangle ADB is congruent to triangle ADC , then prove that AD is the perpendicular bisector of BC .

In $\triangle ADB$ and $\triangle ADC$,
 $BD = DC$ (Since AD is bisector of BC)
 $AD = AD$ (Common side)
 Given $\rightarrow \triangle ADB \cong \triangle ADC$ by SAS rule
 So $\angle ADB = \angle ADC$ [Since $\angle ABD$ is not equal to $\angle DCA$ and $\angle BAD$ is not equal to $\angle CAD$]
 Also $\angle ADB + \angle ADC = 180^\circ$
 $\angle ADB + \angle ADB = 180^\circ$
 $2\angle ADB = 180^\circ$
 $\angle ADB = 90^\circ$
So $\angle ADB = \angle ADC = 90^\circ$

(3)

(Total for Question 20 is 5 marks)

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Xiang Xie



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