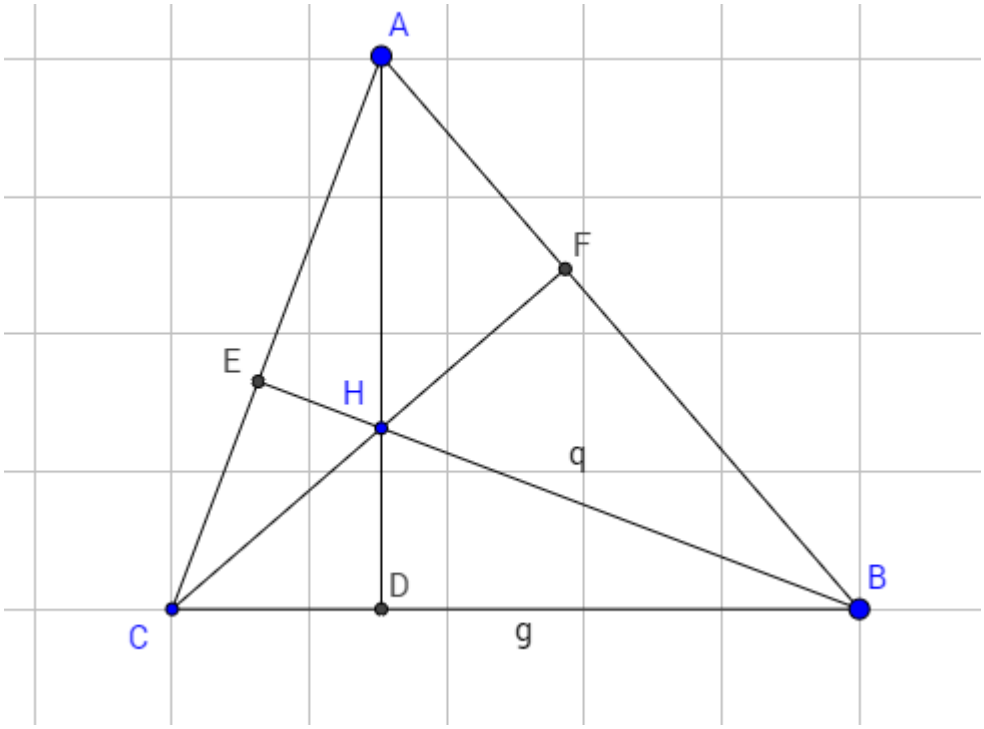

如圖。H 為銳角三角形之垂心。

$\overline{AE} = \overline{AH}\cos\angle EAH = \overline{AH}\sin\angle ACB$

且 $\overline{AE} = \overline{AB}\cos\angle CAB$ ，

則 $\overline{AH}\sin\angle ACB = \overline{AB}\cos\angle CAB$

$\overline{AH} = \dfrac{\overline{AB}}{\sin\angle ACB}\cdot\cos\angle CAB = 2R\cos\angle CAB$　　(R 為外接圓半徑)

又 $\overline{AH} = \overline{AO} = R$

$\therefore \cos\angle CAB = \dfrac{1}{2}$