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Name : Vidit H. Shah. Date : 10/7/17.
 Class : IX Board : CBSF Batch : - Course Code : Samarth
 Subject : Maths Roll No. : 13701 Test ID : PT-3M
 Marks Obtained : 30 Max. Marks : 30
 Centre : Vagna Invigilator Sign. : [Signature]

Section. A.

Q1.

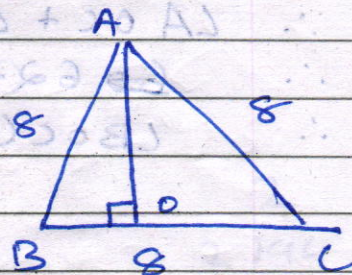
Ans. $AB=8$ $BC=8$ $AC=8$.

In ΔABO .

AO is altitude.

$\therefore \Delta ABO$ is a right angle Δ .

$\therefore AB=8$. $BO=4$. $\left(\frac{8}{2}\right)$ $AO=?$



$$\therefore AO^2 + OB^2 = AB^2$$

$$\therefore AO^2 + 4^2 = 8^2$$

$$\therefore AO^2 + 16 = 64$$

$$\therefore AO^2 = 64 - 16$$

$$\therefore AO^2 = 48$$

$$\therefore AO = \sqrt{48} = \sqrt{4 \times 4 \times 3} = \sqrt{4^2 \times 3} = 4\sqrt{3} \text{ cm. } (C)$$

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$$\begin{array}{r} 16 \\ \times 3 \\ \hline 48 \end{array}$$

Q2.

$$\angle A + \angle B + \angle C = 180^\circ$$

$$\angle B = 76^\circ$$

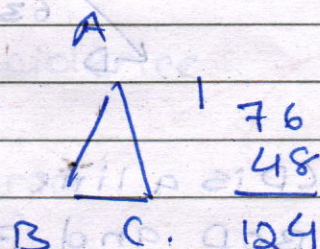
$$\therefore \angle A + 76 + 48 = 180^\circ$$

$$\angle C = 48^\circ$$

$$\therefore \angle A + 124 = 180$$

$$\therefore \angle A = 180 - 124$$

$$\boxed{\angle A = 56^\circ}$$



$$\begin{array}{r} 180 \\ - 124 \\ \hline 56 \end{array}$$