Exercise 4D

Question 4:

$\angle A + \angle B = 108^{O}$ [Given]

But as $\angle A$, $\angle B$ and $\angle C$ are the angles of a triangle,

$\angle A + \angle B + \angle C = 180^{O}$

$\Rightarrow 108^{O} + \angle C = 180^{O}$

$\Rightarrow C = 180^{O} - 108^{O} = 72^{O}$

Also, $\angle B + \angle C = 130^{O}$ [Given]

$\Rightarrow \angle B + 72^{O} = 130^{O}$

$\Rightarrow \angle B = 130^{O} - 72^{O} = 58^{O}$

Now as, $\angle A + \angle B = 108^{O}$

$\Rightarrow \angle A + 58^{O} = 108^{O}$

$\Rightarrow \angle A = 108^{O} - 58^{O} = 50^{O}$

$\therefore \angle A = 50^{O}$, $\angle B = 58^{O}$ and $\angle C = 72^{O}$.

Question 5:

Since. $\angle A$, $\angle B$ and $\angle C$ are the angles of a triangle .

So, $\angle A + \angle B + \angle C = 180^{O}$

Now, $\angle A + \angle B = 125^{O}$ [Given]

$\therefore 125^{O} + \angle C = 180^{O}$

$\Rightarrow \angle C = 180^{O} - 125^{O} = 55^{O}$

Also, $\angle A + \angle C = 113^{O}$ [Given]

$\Rightarrow \angle A + 55^{O} = 113^{O}$

$\Rightarrow \angle A = 113^{O} - 55^{O} = 58^{O}$

Now as $\angle A + \angle B = 125^{O}$

$\Rightarrow 58^{O} + \angle B = 125^{O}$

$\Rightarrow \angle B = 125^{O} - 58^{O} = 67^{O}$

$\therefore \angle A = 58^{O}$, $\angle B = 67^{O}$ and $\angle C = 55^{O}$.

********** END **********