Overtion 1. The angles of a teriangle are in A. P. 4 b:c=53:52Then find LA.

(a) 60°

(상) 22½°

cc) 3°

Cd) 75°

Solution: -

Using Law:

 $\Rightarrow \frac{\sin \beta}{\sin c} = \frac{\beta}{c} = \frac{\sqrt{3}}{\sqrt{2}}$ 

Since, the angles of the triangle one in A.P.

: Let the angles be  $\angle A = A$ ,  $\angle B = A + d$ ,  $\angle C = A + 2d$ 

HOW, LA+ LB+ LC = 180°

$$\Rightarrow A+A+d+A+2d=180^{\circ}$$

$$\Rightarrow A+d=60^{\circ}-2$$

$$\frac{\text{Sin B}}{\text{Sin C}} = \frac{\sqrt{3}}{\sqrt{2}}$$

$$\frac{\sin(A+d)}{\sin C} = \sqrt{\frac{3}{2}}$$

$$\Rightarrow \quad \text{SinC} = \int_{3}^{2} x \int_{2}^{3} = \int_{2}^{2}$$

: LA = A = 75° At (Option d)