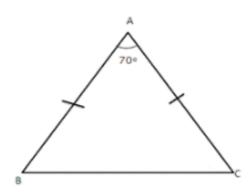


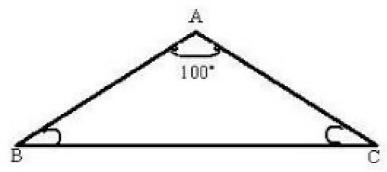
Exercise 5A

Question 1:

AB=AC implies their opposite angle are equal



Question 2:



Consider the isosceles triangle Δ ABC. Since the vertical angle of ABC is 100°, we have, \angle A = 100°. By angle sum property of a triangle, we have,

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

 $\Rightarrow 100^{\circ} + \angle B + \angle C = 180^{\circ}$
 $\Rightarrow 100^{\circ} + \angle B = 180^{\circ}$ [Since in an isosceles triangle base angles are equal, $\angle B = \angle C$]
 $\Rightarrow 2\angle B = 180^{\circ} - 100^{\circ} = 80^{\circ}$
 $\Rightarrow \angle B = \frac{80^{\circ}}{2}$
 $\Rightarrow \angle B = 40^{\circ}$
 $\Rightarrow \angle B = \angle C = 40^{\circ}$

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