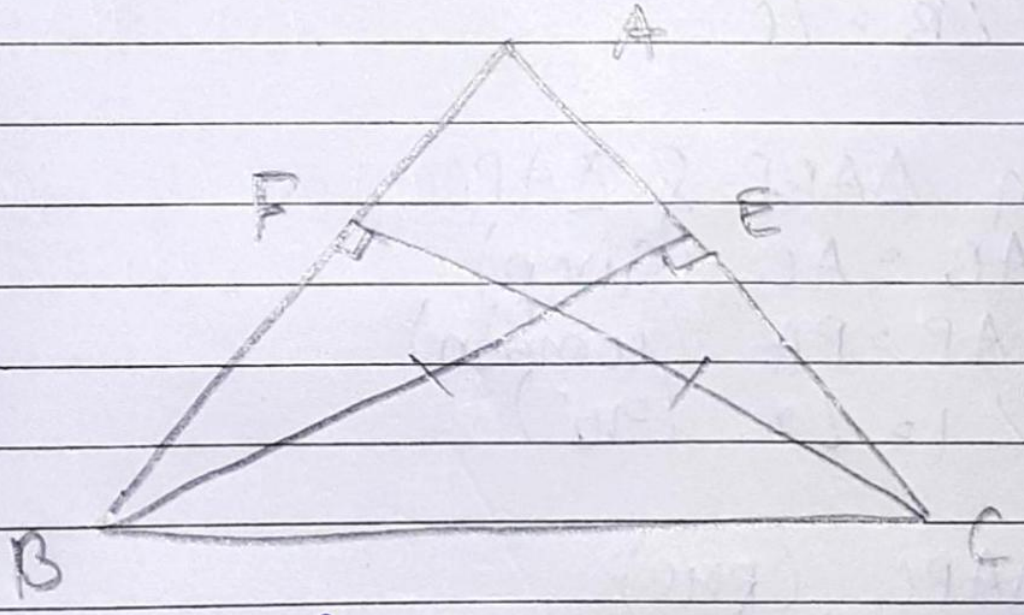
4.



Ans- Given :- BE & CF are equal altitude

To prove :- ΔABC is isosceles

Proof :- In ΔBEC & ΔCFB

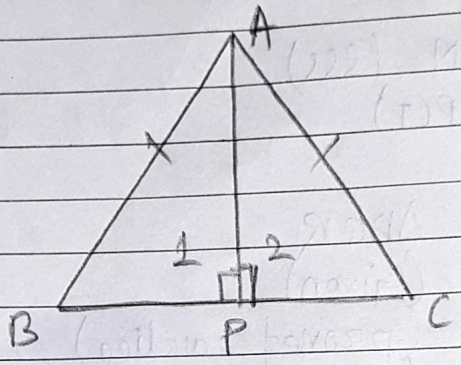
$\angle BEC = \angle CFB$ (90°)

$BC = CB$ (common)

$BE = CF$ (Given)

$\therefore$ $\Delta BEC \cong \Delta CFB$ (RHS)
$\angle B = \angle C$ (CPCT)
$AC = AB$ (sides opposite to equal angle).
$\therefore$ ΔABC is an isosceles. (proved)

5.



Ans- Given :- $AB = AC$

To prove :- $\angle B = \angle C$

Proof :- In ΔABP & ΔAPC
$AB = AC$ (Given)
$AP = PA$ (common)
$\angle 1 = \angle 2$ ($90°$)

$\therefore$ $\Delta ABP \cong \Delta APC$ (RHS)
$\angle B = \angle C$ (CPCT)