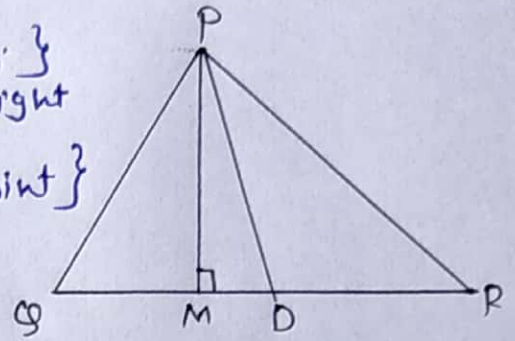


(1) In $\triangle PQR$, D is the mid-point of \overline{QR} .

\overline{PM} is Altitude $\{ \because \angle PMD = 90^\circ \}$
+ height

\overline{PD} is Median. $\{ \because D \text{ is mid point} \}$
 $QD = DR$



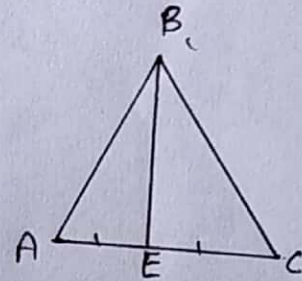
IS $QM = MR$?

NO $QM \neq MR$ $\{ \because QD = DR \}$

(2) Draw rough sketches for the following :

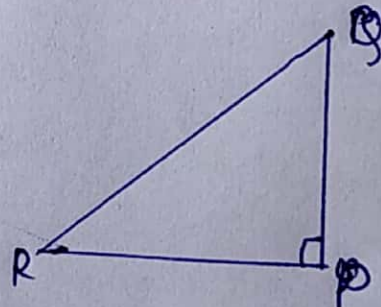
(i) In $\triangle ABC$, BE is median.

Here BE is median with $AE = EC$



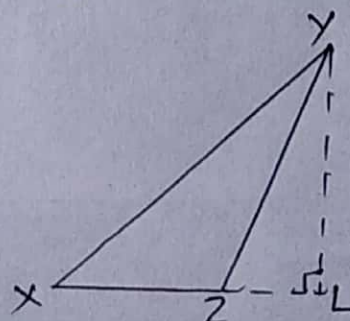
(ii) In $\triangle PQR$, PQ and PR are altitudes of the triangle.

Here PQ and PR are the altitudes of the $\triangle PQR$.



(iii) In $\triangle XYZ$, YL is an altitude in the exterior of the triangle.

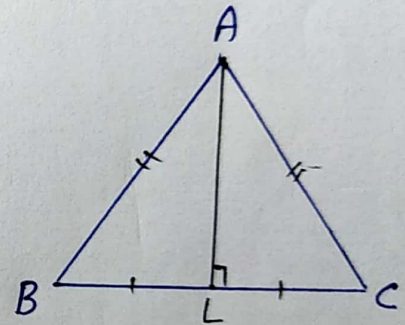
Here, YL is an altitude in the exterior of $\triangle XYZ$.



③ Verify by drawing a diagram if the median and altitude of an isosceles triangle can be same.

Solⁿ:- In $\triangle ABC$, draw a median when $AB = AC$

Here AL is median and altitude of the given triangle.



{ $BL = LC \rightarrow$ for median }
{ $AL \rightarrow$ height }