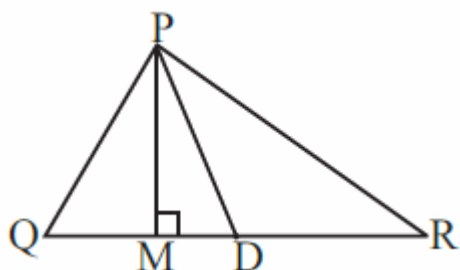


**Access answers to Maths NCERT Solutions for**  
**Class 7 Chapter 6 – The Triangle and its Properties**  
**Exercise 6.1**

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



(i)  $\overline{PM}$  is .

**Solution:-**

Altitude

An altitude has one end point at a vertex of the triangle and other on the line containing the opposite side.

(ii)  $\overline{PD}$  is .

**Solution:-**

Median

A median connects a vertex of a triangle to the mid-point of the opposite side.

(iii) Is  $QM = MR$ ?

**Solution:-**

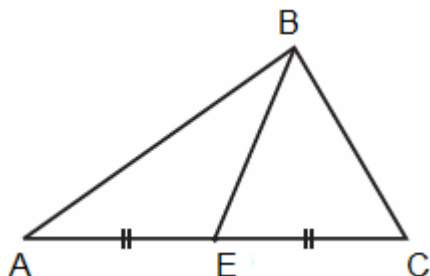
No,  $QM \neq MR$  because, D is the mid-point of QR.

2. Draw rough sketches for the following:

(a) In  $\Delta ABC$ , BE is a median.

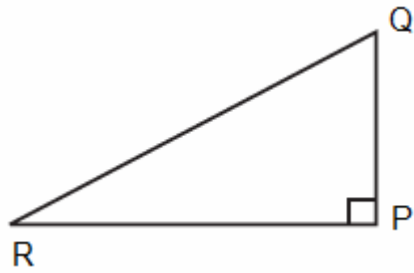
**Solution:-**

A median connects a vertex of a triangle to the mid-point of the opposite side.



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

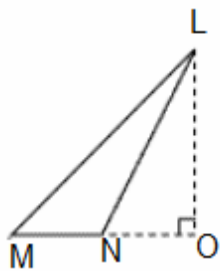
**Solution:-**



An altitude has one end point at a vertex of the triangle and other on the line containing the opposite side.

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

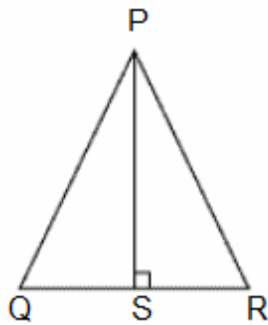
**Solution:-**



In the figure we may observe that for  $\triangle LMN$ ,  $LO$  is an altitude drawn exteriorly to side  $LN$  which is extended up to point  $L$ .

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

**Solution:-**



Draw a Line segment  $PS \perp BC$ . It is an altitude for this triangle. Here we observe that

length of  $QS$  and  $SR$  is also same. So  $PS$  is also a median of this triangle.