



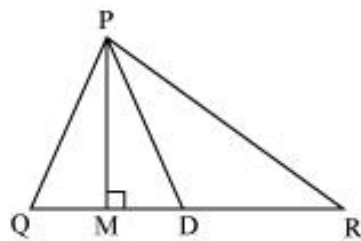
NCERT Solutions For Class 7 Maths The Triangle and its Properties
Exercise 6.1

Q1. In $\triangle PQR$, D is the mid-point of \overline{QR} .

\overline{PM} is _____.

PD is _____.

Is $QM = MR$?



Ans:

(i) Altitude

(ii) Median

(iii) No

Q2. Draw rough sketches for the following:

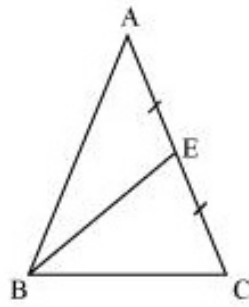
(a) In $\triangle ABC$, BE is a median.

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

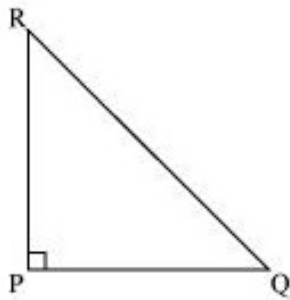
(c) In $\triangle XYZ$, YL is an altitude in the exterior of the triangle.

Ans:

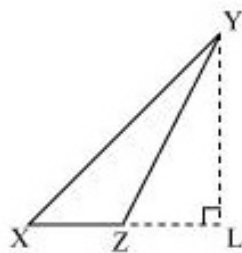
(a)



(b)



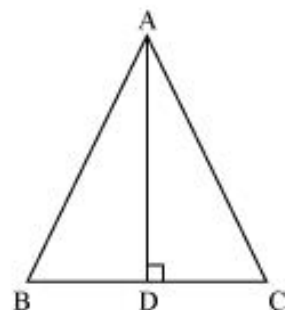
(c)



Here, it can be observed that for $\triangle XYZ$, YL is an altitude drawn exterior to side XZ which is extended up to point L .

Q3. Verify by drawing a diagram if the median and altitude of an isosceles triangle can be same.

Ans:



Draw a line segment AD perpendicular to BC . It is an altitude for this triangle. It can be observed that the length of BD and DC is also same. Therefore, AD is also a median of this triangle.

***** END *****

