



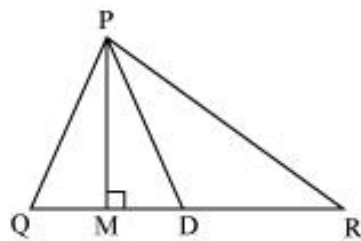
NCERT Solutions For Class 7 Maths The Triangle and its Properties  
Exercise 6.1

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

$\overline{PM}$  is \_\_\_\_\_.

$\overline{PD}$  is \_\_\_\_\_.

Is  $QM = MR$ ?



**Ans:**

(i) Altitude

(ii) Median

(iii) No

**Q2.** Draw rough sketches for the following:

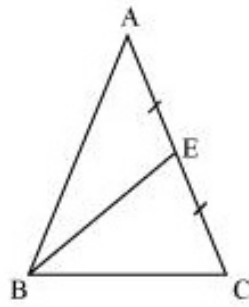
(a) In  $\triangle ABC$ ,  $BE$  is a median.

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

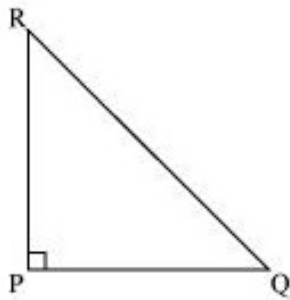
(c) In  $\triangle XYZ$ ,  $YL$  is an altitude in the exterior of the triangle.

**Ans:**

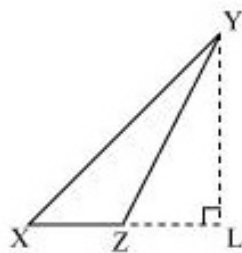
(a)



(b)



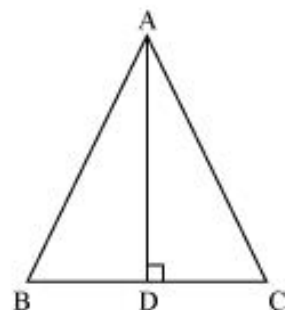
(c)



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 \*\*\*\*\*

