NCERT Solutions for Class 7 Maths Chapter 6 The Triangle and its Properties Ex 6.1

Ex 6.1 Class 7 Maths Question 1. In \triangle PQR, D is the mid-point of \overline{QR} , \overline{PM} is \overline{PD} is PD is If QM = MR?

Solution: \overline{PM} is altitude.

 \overline{PD} is median.

No, $QM \neq MR$.

Ex 6.1 Class 7 Maths Question 2.

Draw rough sketches for the following:

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

(ib) In $\Delta\text{PQR},$ PQ and PR are altitudes of the triangle.

(c) In Δ XYZ, YL is an altitude in the exterior of the triangle. Solution:



Ex 6.1 Class 7 Maths Question 3.

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

 ΔABC is an isosceles triangle in which AB = AC



Draw AD as the median of the triangle.

Measure the angle ADC with the help of protractor we find, $\angle ADC = 90^{\circ}$

Thus, AD is the median as well as the altitude of the \triangle ABC. Hence Verified.