

Board – CBSE

Class – 7th

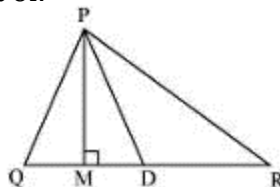
Topic – The Triangle and Its Properties 6.1

**Q.1** In  $\Delta PQR$ , D is the mid-point of

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

PD is \_\_\_\_\_.

Is  $QM = MR$ ?

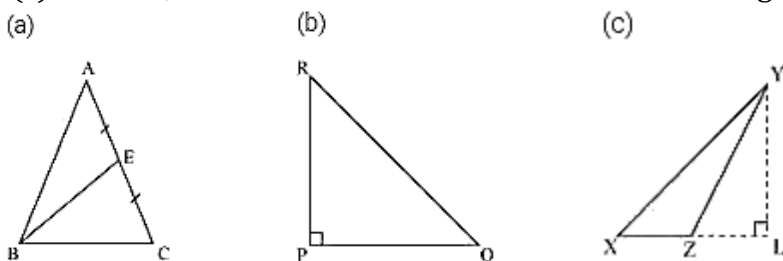


- Sol:**
- (i) Altitude
  - (ii) Median
  - (iii) No

**Q.2** Draw rough sketches for the following:

- (a) In  $\Delta ABC$ , BE is a median.
- (b) In  $\Delta PQR$ , PQ and PR are altitudes of the triangle.
- (c) In  $\Delta XYZ$ , YL is an altitude in the exterior of the triangle.

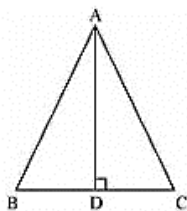
**Sol:**



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

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

**Sol:**



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.