



## CLASS NOTES-ANSWERS

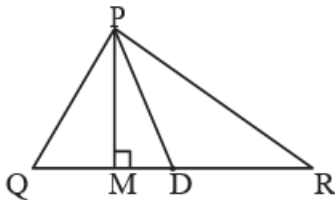
### EXERCISE 6.1

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

PM is\_\_\_\_\_.

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

Is  $QM = MR$ ?



Answer:

Given, PM is perpendicular to QR. Therefore, PM is altitude.

Also, D is the mid-point of QR.  $QD = DR$

PD is median.

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

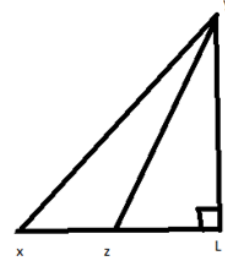
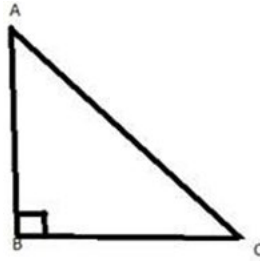
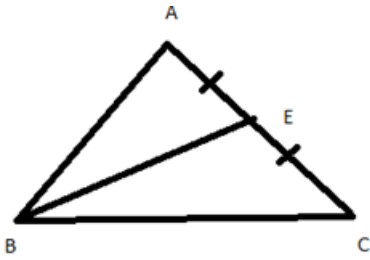
2. Draw rough sketches for the following:

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

(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.

Answer:



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

**Answer:**

Draw a  $\triangle ABC$  and then draw a line segment  $AD$  perpendicular to  $BC$ .  $AD$  is an Altitude of the triangle. It can be observed that length of  $BD$  and  $DC$  is also same. Therefore,  $AD$  is also a median of this triangle.

