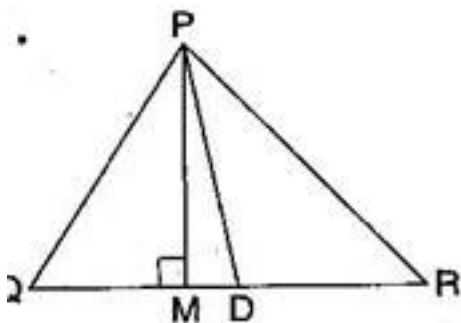**CBSE Class –VII Mathematics**
NCERT Solutions
Chapter 6 The Triangle and its Properties (Ex. 6.1)

Question 1. In $\triangle$PQR, D is the mid-point of $\overline{QR}$.

$\overline{PM}$ is _____

PD is _____

Is QM = MR ?

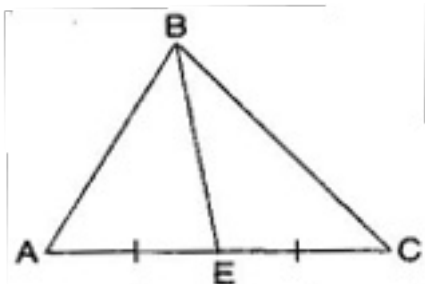**Answer:** Given: QD = DR

$\therefore$ $\overline{PM}$ is altitude.

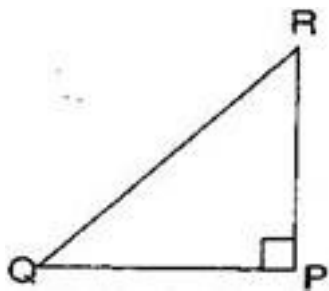PD is median.

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

Question 2. Draw rough sketches for the following:

1. In $\triangle$ABC, BE is a median.

2. In $\triangle$PQR, PQ and PR are altitudes of the triangle.

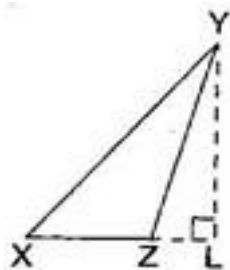3. In $\triangle$XYZ, YL is an altitude in the exterior of the triangle.

Answer: (a) Here, BE is a median in $\triangle ABC$ and AE = EC.

(b) Here, PQ and PR are the altitudes of the ΔPQR and RP $\perp$ QP.

(c) YL is an altitude in the exterior of ΔXYZ.

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

Answer: Isosceles triangle means any two sides are same.

Take ΔABC and draw the median when AB = AC.

AL is the median and altitude of the given triangle.