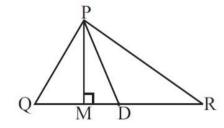
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# Exercise 6.1

# **Question 1:**

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

PM is \_\_\_\_\_ PD is \_\_\_\_ Is QM = MR?



#### Answer 1:

Given: QD = DR

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

PD is median.

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

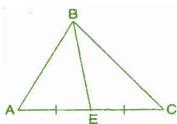
# **Question 2:**

Draw rough sketches for the following:

- (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.

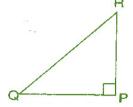
#### **Answer 2:**

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

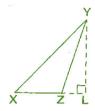


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(b) Here, PQ and PR are the altitudes of the  $\triangle$  PQR and RP  $\perp$  QP.



(c) YL is an altitude in the exterior of  $\Delta$  XYZ.



# **Question 3:**

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

#### **Answer 3:**

Isosceles triangle means any two sides are same.

Take  $\triangle ABC$  and draw the median when AB = AC.

AL is the median and altitude of the given triangle.

