Mathematics

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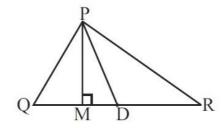
(Chapter – 6) (The Triangle and its Properties)
(Class – VII)

Exercise 6.1

Question 1:

In \triangle PQR, D is the mid-point of \overline{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.



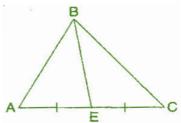
Question 2:

Draw rough sketches for the following:

- (a) In \triangle ABC, BE is a median.
- (b) In Δ PQR, PQ and PR are altitudes of the triangle.
- (c) In Δ 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.





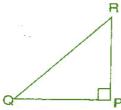
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(b) Here, PQ and PR are the altitudes of the Δ PQR and RP \perp QP.



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

