



VIDYA BHAWAN, BALIKA VIDYAPITH

Shakti Utthan Ashram, Lakhisarai-811311(Bihar)

(Affiliated to CBSE up to +2 Level)

CLASS: VII

SUB.: MATHS (NCERT BASED)

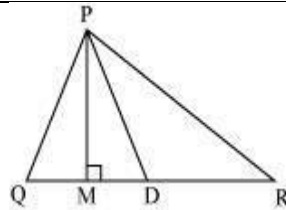
DATE: 05-09-2020

Q. 1 : In ΔPQR , D is the mid-point of \overline{QR} .

(i) \overline{PM} is _____.

(ii) PD is _____.

(iii) Is $QM = MR$?



(i) Altitude (ii) Median (iii) No

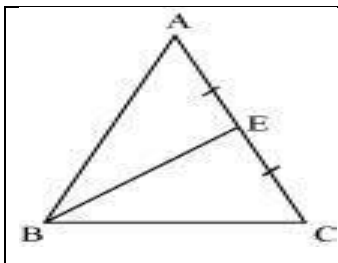
Draw rough sketches for the following:

(a) In ΔABC , BE is a median.

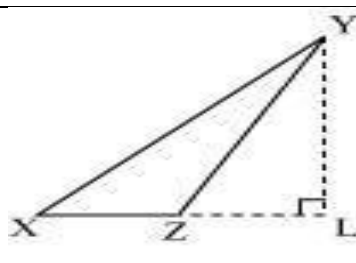
(c) In ΔPQR , PQ and PR are altitudes of the triangle.

(b) In ΔXYZ , YL is an altitude in the exterior of the triangle.

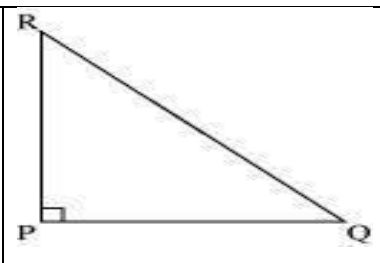
ANSWER:



(a)



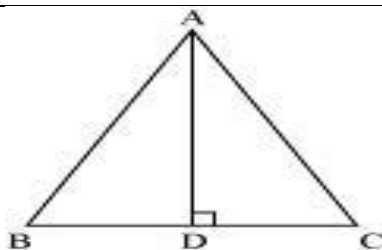
(b)



(c)

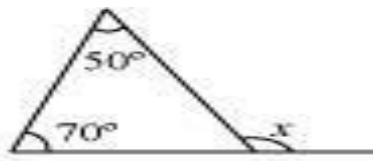
Question 3: Verify by drawing a diagram if the median and altitude of an isosceles triangle can be same.

ANSWER:

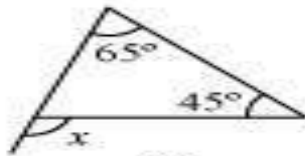


Draw a line segment AD perpendicular to BC. It is an altitude for this triangle. It can be observed that the length of BD and DC is also same. Therefore, AD is also a median of this triangle.

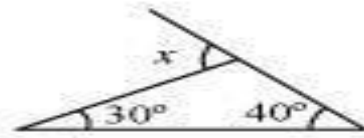
Q. Find the value of the unknown exterior angle x in the following diagrams:



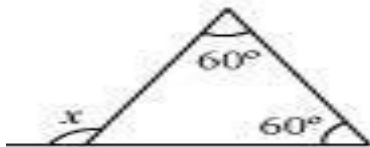
(i)



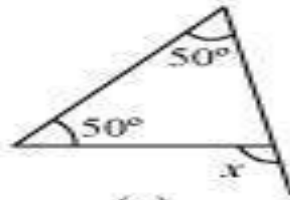
(ii)



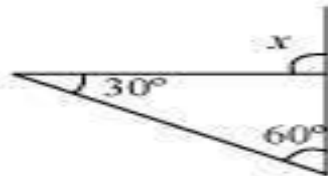
(iii)



(iv)

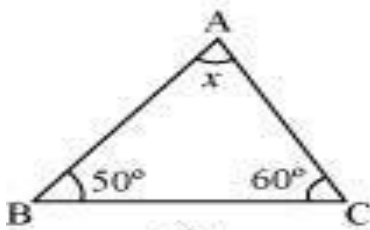


(v)

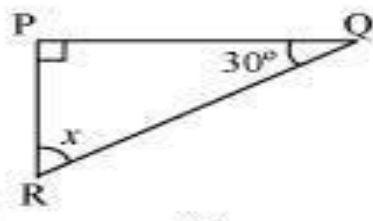


(vi)

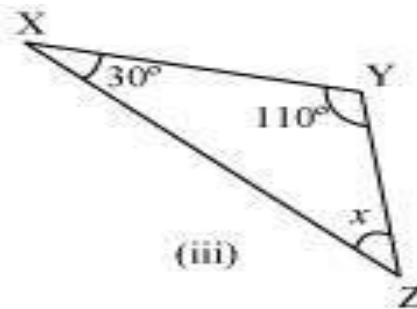
Q. 1 Find the value of the unknown x in the following diagrams:



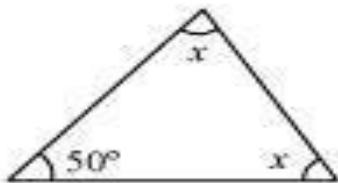
(i)



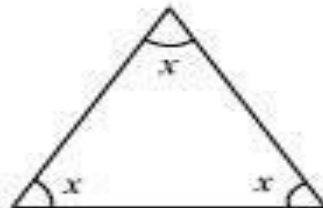
(ii)



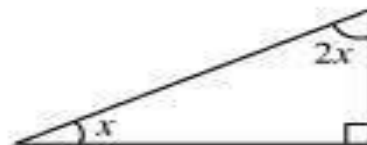
(iii)



(iv)

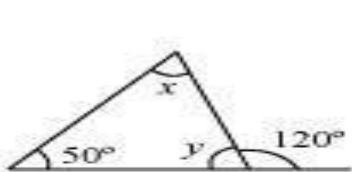


(v)

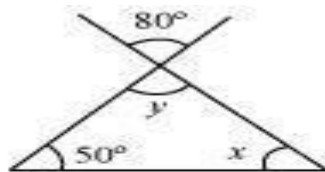


(vi)

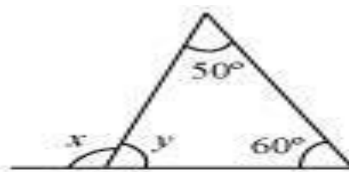
Q 2: Find the value of the unknowns x and y in the following diagrams:



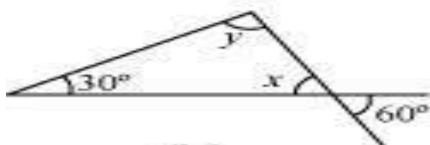
(i)



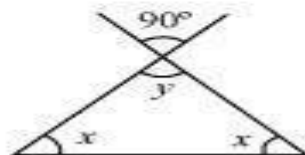
(ii)



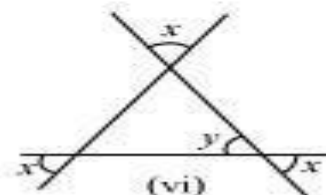
(iii)



(iv)



(v)



(vi)