

v) Find the side of a square whose diagonal is $16\sqrt{2}$ cm long.

Q.3) Solve the following questions. [Any-2]

[6]

i) Adjacent side of a parallelogram are 11cm and 17cm. If one of its diagonal is 26cm,

then find length of its other diagonal.

ii) See the given figure. In \triangle PQR, \perp PQR=90 \circ , seg QS \perp seg PR, then find x, y, z.



iii) In an isosceles triangle, length of the congruent side is 13cm and its base is 10cm.

Find the distance between the vertex opposite to the base and the centroid.

Q.4) Attempt Any Two.

i) In the adjoining figure, \triangle PQR is an equilateral triangle. Point S is on

seg QR such that $QS = \frac{1}{3}$ QR. Prove that: 9 PS² = PQ².

ii) In \triangle ABC, \lfloor BAC=90 \circ , seg BL and seg CM are medians of \triangle ABC.

Then prove that $4(BL^2+CM^2)=5BC^2$.

vertex C on side AB is p, then show that

i. cp=ab

ii. ____

Best of Luck......

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