

By. Er. Dharmendra Sir

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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

TRIANGLES

SESSION -2024-25

CLASS - 9th

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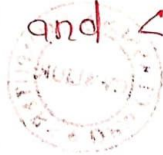
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Time : 1 hr :- Triangles : mm!

Q.1. In $\triangle PQR$, if $\angle R = \angle P$ and $QR = 4$ cm and $PR = 5$ cm. Then, the length of PQ .



Q.2. It is given that $\triangle ABC \cong \triangle FDE$ and $AB = 5$ cm, $\angle B = 40^\circ$ and $\angle A = 80^\circ$. Then find DF and $\angle E$?

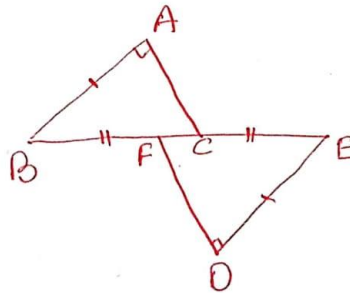


Q.3. In $\triangle PQR$, $\angle P = 70^\circ$ and $\angle R = 30^\circ$. Which side of this triangle is the longest? Give reason for your answer.



Q.4. AD is a median of the $\triangle ABC$. Is it true that $AB + BC + CA > 2AD$? Give reason for your answer.

Q.5. In figure, $BA \perp AC$, $DE \perp DF$ such that $BA = DE$ and $BF = EC$. Show that $\triangle ABC \cong \triangle DEF$



1.

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Q.6. D is any point on side AC of a $\triangle ABC$ with $AB = AC$. Show that $CD < BD$.

Q.7. ABCD is a quadrilateral in which $AB = BC$ and $AD = CD$. Show that BD bisect both the angles ABC and ADC.



Q.8. ABC is a right triangle with $AB = AC$. If bisector of $\angle A$ meets BC at D, then prove that $BC = 2AD$.



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