



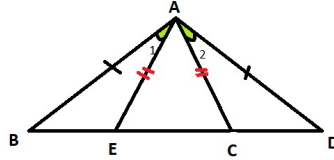
Asum sarker

SATISH CHANDRA MEMORIAL SCHOOL

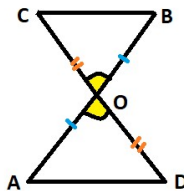
CLASS: IX MATHEMATICS

HOT QUESTIONS (Ch: Triangle)

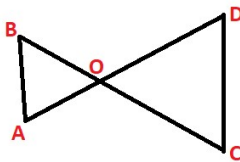
1. In $\triangle ABC$, $AB = AC$ and exterior angle $\angle ACD = 120^\circ$, find $\angle B$



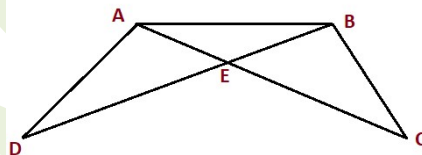
2. In the figure above $AB = AD$, $AE = AC$ and $\angle 1 = \angle 2$. Prove that $\triangle ABC \cong \triangle ADE$



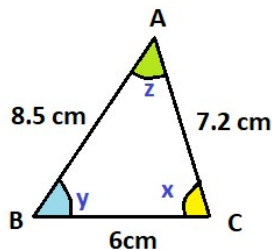
3. In Fig above $OA = OB$ and $OD = OC$. Show that (i) $\triangle AOD \cong \triangle BOC$ and (ii) $AD \parallel BC$



4. In the figure above $\angle B < \angle A$ and $\angle C < \angle D$. Show that $AD < BC$
 5. Prove that: if two sides of a triangle are equal then the angles opposite to these are also equal.



6. In the given figure above, $\angle EAB = \angle EBA$ and $AC = BD$. Prove that $AD = BC$



7. In the given figure, $AB = 8.5$ cm, $BC = 6$ cm, $CA = 7.2$ cm. Write x, y, z in ascending order.