

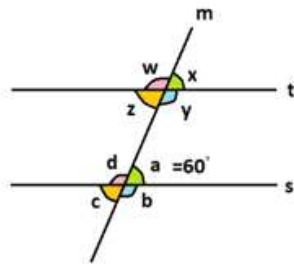


Ashim sarker

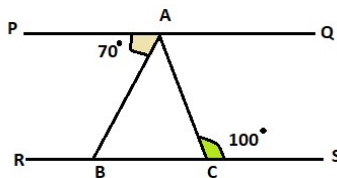
# SATISH CHANDRA MEMORIAL SCHOOL

CLASS: IX MATHEMATICS

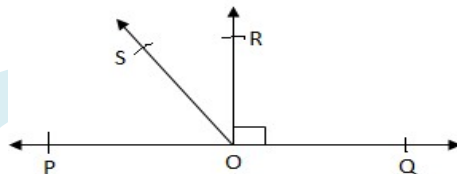
HOT QUESTIONS (Ch: Lines & Angles)



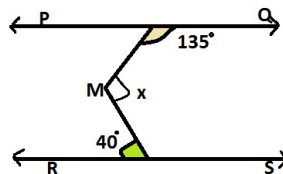
- In the figure above  $t \parallel s$  and  $m$  is the transversal. Find the values of  $x, y, z, w, c, d, b$
- In the given figure  $PQ \parallel RS$ . Determine  $\angle ABC, \angle BAC, \angle CAQ$



- In figure  $POQ$  is a line. Ray  $OR$  is perpendicular to line  $PQ$ .  $OS$  is another ray lying between rays  $OP$  and  $OR$ . Prove that  $\angle ROS = \frac{1}{2} (\angle QOS - \angle POS)$ .



- In the figure  $\triangle PQR$  is a triangle.  $PS$  and  $RT$  are medians and  $SM \parallel RT$ . Prove that  $QM = \frac{1}{4} PQ$



- In Fig  $PQ$  and  $RS$  are two mirrors placed parallel to each other. An incident ray  $AB$  strikes the mirror  $PQ$  at  $B$ , the reflected ray moves along the path  $BC$  and strikes the mirror  $RS$  at  $C$  and again reflects back along  $CD$ . Prove that  $AB \parallel CD$ .

