

M.M.25

Ch. Quadrilaterals class IX

Time 1hour

Section A 1 mark each

1. A rectangle is a parallelogram in which _____
2. Is every square is a rhombus?
3. A kite is a quadrilateral in which _____

Section B 2 marks each

4. A diagonal of a parallelogram divides it into two congruent triangles. Prove.
5. Show that the diagonals of a rhombus are perpendicular to each other.

Section C 3 marks each

6. Prove in an isosceles trapezium diagonals are equal.
7. Prove midpoint of hypotenuse is equidistant from 3 vertices using properties of rectangle.

Section D 6 marks each

8. P and Q are respectively the midpoints of non parallel sides of trap. ABCD Prove that $PQ \parallel AB$ and $PQ = \frac{1}{2}(AB + CD)$
9. ABCD is a \parallel gm in which S is midpoint of DC and T is a point of AC such that $CT = \frac{1}{4} AC$. IF ST is produced to meet BC at U. Prove U is midpoint of BC

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