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Key Notes

Chapter 8

Quadrilaterals

- Angle Sum Property of a Quadrilateral
- Types of Quadrilaterals
- Properties of a Parallelogram
- The Mid-Point Theorem
- (1) Sum of the angles of a quadrilateral is 360°
- (2) A diagonals of a parallelogram divides it into two congruent triangles.
- (3) In a parallelogram
 - (a) diagonals bisect each other.
 - (b) opposite angles are equal.
 - (c) opposite sides are equal
- (4) Diagonals of a square bisects each other at right angles and are equal, and vice-versa.
- (5) A line through the mid-point of a side of a triangle parallel to another side bisects the third side. (mid-point theorem)
- (6) The line through the mid points of sides of a $|\Delta||$ to third side and half of it.
- (7) A quadrilateral is a parallelogram, if
 - (a) its opposite angles are equal.
 - (b) its opposite sides are equal.
 - (c) its diagonals bisect each other.
 - (d) a pair of opposite sides is equal and parallel.
- (8) Diagonals of a rectangle bisect each other and are equal and vice-versa.
- (9) Diagonals of a rhombus bisect each other at right angles and vice-versa.
- (10) A line through the mid-point of a side of a triangle parallel to another side bisects the third side.
- (11) The line-segment joining the mid-points of any two sides of a triangle is parallel to the third side and is half of it.

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