



Quadrilaterals

When quadrilateral is a parallelogram?

(Any one of the following conditions)

1. If two pairs of opposite sides are parallel.
2. If two pairs of opposite sides are equal.
3. If two pairs of opposite angles are equal
4. If diagonals bisect each other.
5. If a pair of opposite sides is equal and parallel

When quadrilateral/ parallelogram is a rectangle?

1. If one angle of parallelogram is 90°
2. If diagonals of a parallelogram are equal
3. If all 4 angles of a quadrilateral are 90°

When quadrilateral/ parallelogram is a rhombus?

1. If a pair of adjacent sides of a parallelogram is equal.
2. If a diagonal bisects 2 angles of a parallelogram.
3. If diagonals of a parallelogram are perpendicular to each other.
4. If all 4 sides of a quadrilateral are equal.

When rectangle/ rhombus is a square?

1. If one angle of rhombus is 90° .
2. If diagonals of rhombus are equal.
3. If a pair of adjacent sides of rectangle is equal.
4. If diagonals of a rectangle are perpendicular to each other.

When quadrilateral is a kite?

1. If two pairs of adjacent sides of a quadrilateral are equal.

When quadrilateral is a trapezium?

1. If a pair of opposite sides of a quadrilateral is parallel.

When trapezium is an isosceles trapezium?

1. If legs (non parallel) sides are equal
2. If base angles are equal.
3. If diagonals are equal.

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