The Panda Math Tutor

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Quadrilaterals

IGCSE Mathematics

The Panda Math Tutor

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Contents

1 What is a Quadrilateral? 2

2 Angle Sum of a Quadrilateral 2

3 Types of Quadrilaterals 3
3.1 Square . . . 4
3.2 Rectangle . . . 4
3.3 Parallelogram . . . 5
3.4 Rhombus . . . 6
3.5 Trapezium (Trapezoid) . . . 6
3.6 Kite . . . 7

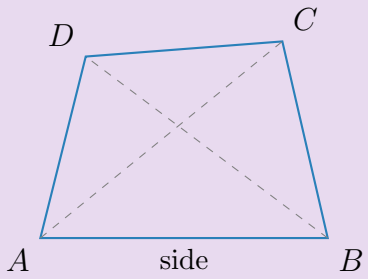
4 Properties Comparison 9

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1 What is a Quadrilateral?

Definition

A **quadrilateral** is a closed, flat shape with exactly four straight sides, four vertices (corners), and four interior angles.
The name originates from two Latin roots: *quadri-*, meaning "four," and *-latus*, meaning "side."



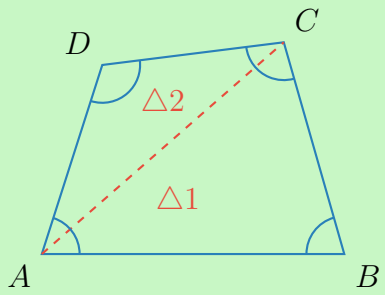
2 Angle Sum of a Quadrilateral

Angle Sum of a Quadrilateral

The four interior angles of every quadrilateral have a combined total of 360°.

$$\angle A + \angle B + \angle C + \angle D = 360°$$

Why? Drawing one diagonal splits the quadrilateral into two separate triangles. Each triangle contains 180° worth of angles, so the quadrilateral contains 180° + 180° = 360° in total.



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