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Quadrilaterals

IGCSE Mathematics

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Quality Mathematics Education for Students

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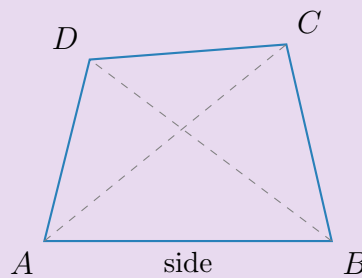
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1 What is a Quadrilateral?

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.”



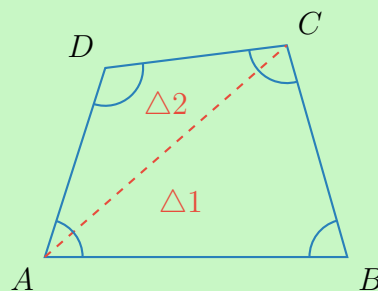
2 Angle Sum of a Quadrilateral

Angle Sum of a Quadrilateral

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

$$\angle A + \angle B + \angle C + \angle D = 360^\circ$$

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



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