

Definition: We call four points A,B,C and D a quadrilateral if the segment AB does not intersect segment CD and BC does not intersect DA.

Definition: We say that a quadrilateral *convex* if both *diagonals* AC and BD are inside.

You can use without explanations the following facts about quadrilaterals:

It is possible to define what points are inside and what points are outside.

If a quadrilateral is convex then both diagonals are inside and intersect inside.

If a quadrilateral is not convex then one diagonal is inside and the other is outside.

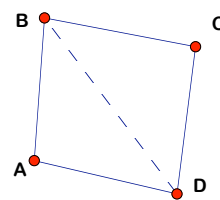
Theorem 22. The sum of the angles of a quadrilateral is 360° .

Definition: A quadrilateral ABCD is called a trapezoid if $BC \parallel AD$ or $AB \parallel CD$.

Definition: A quadrilateral ABCD is called a parallelogram if $BC \parallel AD$ and $AB \parallel CD$.

Definition: A quadrilateral ABCD is called a rhombus if all sides are equal.

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