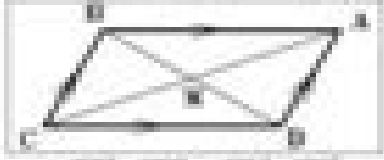
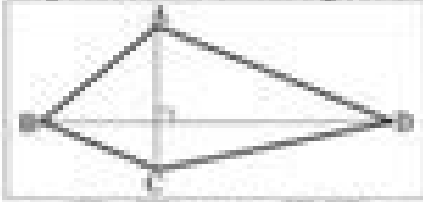


Euclidean Geometry

Axioms of Euclidean Geometry

Section I – Euclidean Geometry III (The Quadrilateral)

General Quadrilateral Diagrams	General Quadrilateral Midpoints
 E and F are midpoints of AC and BD $K_{ACBD} = K_{ACF} + K_{BCF} = K_{ACG} + K_{BCG}$ $K = \frac{1}{2} AC \sin \angle AOB$ $AB^2 + BC^2 + CD^2 + DA^2 = AC^2 + BD^2 + 4EF^2$	 If $\frac{AB}{BC} = \frac{DC}{CB} = \frac{CF}{FB} = \frac{BE}{EA} = a$ Then $\frac{K_{ACBD}}{K_{EFGH}} = \frac{a^2 + 1}{a^2 - 1}$
Circumscribed Quadrilateral	Cyclic Quadrilateral
 $AB + CD = BC + AD = a$, $K_{ACBD} = K$ If Quadrilateral is also cyclic, then $K = \frac{1}{4} \sqrt{(4R^2 - AC^2)(4R^2 - BD^2)}$	 $A + C = B + D = 180^\circ$ $K_{ACBD} = \frac{1}{4} \sqrt{(a - AC)(a - AC)(a - BD)(a - BD)}$ $BC \cdot AD + AB \cdot CD = AC \cdot BD$ $AC(BC \cdot CD + DA \cdot AB) = BD(AB \cdot BC + CD \cdot DA)$
Parallelogram	Rectangle
 $2(BE^2 + DA^2) = AC^2 + BD^2$	 For all point P: $PA^2 + PC^2 = PB^2 + PD^2$
Three Fold Problem	Quadrilateral with 2 Diagonals
 If $\frac{AD}{DB} = \frac{BE}{EC}$, then $\frac{1}{a} = \frac{1}{b} = \frac{1}{c}$	 $AC \perp BD \Rightarrow K = \frac{1}{2} AC \cdot BD$ $AB^2 + CD^2 = BC^2 + DA^2$
Ptolemy's Theorem: In any Quadrilateral, $BD \cdot AC \leq BC \cdot AD + AB \cdot CD$, with equality holding iff Quadrilateral is cyclic.	

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