

CYCLIC INSCRIPTION IN JORDAN CURVES

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ABSTRACT. This is the first of a two-part series on quadrilaterals inscribed on Jordan curves. Here, we prove that every Jordan curve directly inscribes any isosceles trapezium; and for quasicircles, this inscription extends to all cyclic quadrilaterals. Our proof, via a contradiction, is a winding number argument; in the sequel to this paper, we consider the case of non-cyclic quadrilateral inscription.

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