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A Criterion for Quasi-Simple Plane Curves

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Abstract. We give a non-standard criterion for closed plane curves to be quasi-simple, i.e. to be the boundary of a simply connected domain in \mathbb{C} . This can be used, for instance, to introduce piecewise close-to-convex functions and to establish the univalence of the extremal polynomials in the maximal range problem for simply connected domains.

Keywords. simple curves, univalent functions, piecewise close-to-convex.

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