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University of Cincinnati, Cincinnati, OH 45221-0025. *Quasiconvex Plane Domains*. Preliminary  
report.

A metric space is quasiconvex if its intrinsic length distance is bilipschitz equivalent to the original distance; that is, each pair of points can be joined by a rectifiable path whose length is not more than a universal constant times the distance between its endpoints. We describe the quasiconvex Euclidean plane domains and discuss whether or not the complement, of a compact totally disconnected plane set, must be quasiconvex. (Received August 29, 2006)