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Using Equilateral Triangles to Show Mappings are Quasiconformal.

Since quasiconformal mappings were first studied nearly a century ago, they have been applied in a wide variety of fields including complex dynamics, elliptic PDE's and Teichmüller theory. This may be due in part to the many diverse definitions of quasiconformal mappings, all of which are equivalent in the plane. In this talk, we will give a new sufficient condition for planar quasiconformality which relies only on the relative distances between the images of vertices of equilateral triangles. (Received August 10, 2015)