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From circle to hyperbola in taxicab geometry.

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Summary: This article presents a taxicab geometry problem that engages students in plotting points and observing surprising shapes and underlining reasons for the appearance of figures when working with street grids. With this activity, teachers can provide an extra challenge by writing additional problems introducing a subway line that does not follow the street grid. A grid city activity sheet is included. (ERIC)

Classification: G90 D80

Keywords: taxicab geometry; circles; hyperbolas; activities; geometric shapes

<http://www.nctm.org/Publications/Mathematics-Teacher/2015/Vol109/Issue3/From-Circle-to-Hyperbola-in-Taxicab-Geometry/>