Abstract

This bachelor thesis studies the shape of a circle, ellipse, hyperbola and parabola in the taxicab metric, using elementary mathematical methods. It thus constitutes a material suitable for the study of this topic without special requirements regarding knowledge in the field of mathematics on the part of the reader. There is a number of illustrations accompanying the text, most of them created using GeoGebra software. Major hypotheses concerning the shape of the above mentioned objects are supplied with a proof. With its scope and margin, the paper represents a unique work in mathematical literature written in the Czech language at the time of its creation. The secondary benefit of the development of an open mind is mentioned as well.