

The topic of this diploma thesis are loci of points and their shape in case of using non-Euclidean metrics. The first chapter contains an overview of various loci of points discussed in school geometry as well as theoretical introduction to metrics and metric spaces. The second and third chapter describe the same loci of points, but using manhattan and maximum metrics respectively. All of the loci are accompanied by illustrative images. The last chapter of this thesis is dedicated to the application worksheets, that have been created by the author of this thesis on the topic of loci of points in non-Euclidean metrics. The worksheets can be used by both middle and upper school children. Teachers can find not only the answers but also deepening commentaries and possible additional tasks.