

In the bachelor thesis we relate the concepts of derivative, the Darboux property and the function of the Baire class one. It is shown that each derivative has Darboux property and is of the Baire class one. Furthermore, we characterize the functions of the Baire class one using their associated sets. We introduce the concept of Zahorski classes and put them in connection with the functions of the Baire class one with the Darboux property. At the end of the thesis, we prove the Clarkson-Denjoy theorem.