

Abstract: This work, which focuses on normed vector spaces of finite dimension, is divided into three parts. The first one is concerned with balls, specifically with the shape they can have in spaces with various norms. In the second part we define objects called generalized balls and we show a few results concerning their volumes. The last part focuses on the number π – ratio of circle's circumference and its diameter – in finite-dimensional normed vector space, which means space with general (not only Euclidean) norm.