

Abstract: The thesis deals with the history of geometric transformations from ages up to the beginning of the 20th century. On the basis of original sources it refers to the first appearance and subsequent advancement of particular geometric transformations. It focuses especially on the following types of transformations: isometry, similarity, geometric motions, axial affinity, central dilatation, circular inversion, projection, stereographic projection, affine transformations, projective transformations and Cremona transformations. The thesis gives further details about those significant moments from the history of geometry when in the connection with transformations some new ideas arose. On the background of the world's development it follows reflections and the influence on investigated mathematical problems in Czech countries as well. In this context selected parts of Czech textbooks on geometry following for the first time a new approach to some themes are commented in more detail.