

Abstract

This work aims at introducing Pólya's theory of enumeration. After an initial discussion regarding a general problem within combinatorial enumeration we devote some effort to group theory. Basic extracts from the theory of generating functions proves necessary to present, which serves to establish the concept of cycle index. Ultimately, we hope to reconcile the two main topics of this text: the Redfield-Pólya theorem as a continuation of Burnside's lemma.