TITLE: An Applied Mathematics Field: Economic Theory

ABSTRACT: Not only mathematics became an important tool used by the economists in the development of economic theories and the analysis of associated problems but also the economic theory has become a field of applied mathematics. This study aims to present a short historical frame in order to describe the role played by mathematics in economic theory around general equilibrium theory and the theory of games. In this study, some problems and solution methods of microeconomics and macroeconomics are analyzed as fields of application of real analysis, topology, functional analysis, measure theory, optimization theory, fixed point theory, and algorithms.