

## ABSTRACT

In this final project, we will discuss Nickalls method and its implementation in MATLAB in solving any cubic equation. This method is a modification of the Cardan method by firstly defining certain parameters that can describe the obtained solution by geometric shape of the corresponding cubic curves. Solving cubic equations through this method gives real roots which are divided into three cases based on the relationship of the defined parameters.

**Keywords :** *Cardan method, inflection point, concavity.*

