

Abstract

In this research, we obtained some new sufficient conditions to guarantee that all non-oscillatory solutions of second order neutral differential equation with positive and negative coefficients and constant delays tend to zero as t tend to infinity.

The basic concepts with important definitions of delay differential equations with oscillation property for solutions and some basic lemmas have been given in chapter one.

Second chapter contains the main results of the asymptotic behavior of all non-oscillatory solutions of neutral differential equation with positive and negative coefficients and constant delays.