Abstract. In this work, we investigate the oscillation criteria for second order neutral delay differential equations of the form

\[(r(t)[y(t) + p(t)y(\delta(t))]')' + q(t)G(y(\tau(t))) = 0\]

and

\[(r(t)[y(t) + p(t)y(\delta(t))]'|\alpha)' + q(t)(y^\beta(\tau(t))) = 0,\]

where \(\alpha\) and \(\beta\) are the ratio of odd positive integers.


Keywords and phrases: neutral equation, delay differential equation, nonlinear, oscillation.

REFERENCES