

ON OSCILLATORY NONLINEAR SECOND ORDER NEUTRAL DELAY DIFFERENTIAL EQUATIONS

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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 α and β are the ratio of odd positive integers.

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