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## Oscillation of nonlinear neutral delay differential equations of second-order with positive and negative coefficients

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**Abstract:** Some oscillation criteria for the following second-order neutral differential equation  $[x(t)]^{(p)} + p(t)g(x(t-\alpha)) - q(t)g(x(t-\beta)) = s(t)$  where  $t \geq t_0$ ,  $\gamma, \alpha, \beta \in \mathbb{R}^+$  with  $\alpha \geq \beta$ ,  $r \in C^2([t_0, \infty), \mathbb{R}^+)$ ,  $p, q \in C([t_0, \infty), \mathbb{R}^+)$  and  $f, g \in C(\mathbb{R}, \mathbb{R})$ ,  $s \in C([t_0, \infty), \mathbb{R})$  have been obtained. Our results are not restricted with boundedness of solutions.

**Key Words:** Delay differential equations, neutral, nonlinear, oscillation, second-order.

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