



## Item Navigation

# Laplace Transform of an ODE

Consider the inhomogeneous constant-coefficient second-order ode given by

$$a\ddot{x} + b\dot{x} + cx = g(t), \quad x(0) = x_0, \quad \dot{x}(0) = u_0.$$

Determine the solution for  $X = X(s)$  in terms of the Laplace transform of  $g(t)$ .

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