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Differential equations are both challenging objects at a

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Math 54, Linear Algebra and Differential Equations, Fall 2017

Consider the linear, second order, homogeneous, ordinary differential equation $a(t) \frac{d^2y}{dt^2} + b(t) \frac{dy}{dt} + c(t)y = 0$, (2.1) where $a(t)$, $b(t)$ and $c(t)$ are known functions. (1) If $y_1(t)$ and $y_2(t)$ satisfy (2.1), then for any two constants C_1 and C_2 , $y(t) = C_1y_1(t) + C_2y_2(t)$ (2.2) is a solution also.

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