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Institute of Technology (MIT). Linear equations include $dy/dt = y$, $dy/dt = -y$, $dy/dt = 2ty$. The equation $dy/dt = y * y$ is nonlinear.

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3.1-3.3

Math 54, Linear Algebra and
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Consider the linear, second
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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 , $y(t) = C_1y_1(t) + C_2y_2(t)$

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(2.2) is a solution also.

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