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Introduction to Numerical Methods and Matlab Programming...

Lecture 31: Higher Order Methods (placeholder) 32: Lecture 33: ODE

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are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $c dv/dt = -d$ . Multiply both

sides by  $m/c$ .  $dv/dt = -d/m$ . Integrate separation of variables,  $dv/cd = -d/m dt$ . A table of integrals can be consulted to find that  $\int dv/c = -d/m \int dt$ .

Therefore, the integration yields  $v = -d/m \cdot t + C$ .

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