

## Applied Numerical Methods With Matlab Solutions Third Edition

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1.1 You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $v^2 m \frac{dv}{dt} = -d$ . Multiply both sides by  $\frac{dv}{dt}$ .  $\frac{1}{2} m \frac{d}{dt} (v^2) = -d$ . Define  $a = \frac{mg}{cd}$ .  $a v^2 \frac{dv}{dt} = -d$ . Integrate by separation of variables,  $\int dt = \int \frac{c}{v} dv$ .  $dt = \frac{c}{v} dv$ .

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