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are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = g - \frac{1}{2} \rho C_d A v^2$ . Multiply both sides by  $\frac{2}{c} \frac{dv}{v^2}$ . Define  $a = \frac{mg}{c}$ . Integrate separation of variables,  $\int \frac{2}{v^2} dv = \int \frac{a - \frac{1}{2} \rho C_d A v}{c} dt$ . A table of integrals can be consulted to find that  $\int \frac{1}{v^2} dv = -\frac{1}{v} + C$ . Therefore, the integration yields  $-\frac{2}{v} = \frac{a}{c} t - \frac{1}{v_0}$  ...

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Integrate by separation of variables,  $dt = m c a v \int dv = \int d^2 - 2$ .

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