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equation with the initial condition, $v(t=0) = 0$, $c \frac{dv}{dt} + \frac{1}{2} m v^2 = mg$. Multiply
both sides by $\frac{1}{v}$ to get $\frac{c}{v} \frac{dv}{dt} + \frac{1}{2} m v = mg$. Define $u = \frac{1}{2} m v^2$, $\frac{du}{dt} = m v \frac{dv}{dt}$.
Integrate separation of variables, $\int \frac{c}{v} \frac{dv}{dt} dt + \int \frac{1}{2} m v dt = \int mg dt$. A table of integrals
can be consulted to find that $\int \frac{1}{v} dv = \ln v$. Therefore, the
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$m/cd. gv^2 c m dt dv c m dd = -$. Define $a = mg /cd. a^2v^2 dt dv c m. d$
 $= -$. Integrate by separation of variables, $dt m c a v \quad dv = d^2 - 2$.

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