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

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