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You are given the following differential equation with the initial condition,  $v(0) = 0$ ,  $c \frac{dv}{dt} + g v^2 = m$ . Multiply both sides by  $\frac{dv}{v^2}$  to get  $\frac{c}{v^2} \frac{dv}{dt} + \frac{g}{v} = \frac{m}{v^2}$ . Define  $u = \frac{1}{v}$ , then  $\frac{du}{dt} + gu = \frac{m}{c} u^2$ . Integrate separation of variables,  $\int \frac{du}{c u^2 + g} = \int \frac{m}{c} \frac{du}{u^2}$ . A table of integrals can be consulted to find that  $\int \frac{du}{c u^2 + g} = \frac{1}{\sqrt{cg}} \tan^{-1} \frac{u \sqrt{cg}}{g}$ . Therefore, the integration yields  $\frac{1}{\sqrt{cg}} \tan^{-1} \frac{u \sqrt{cg}}{g} = -\frac{m}{c} \frac{1}{u} + C$  ...

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