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1.1 You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} + g v^2 = \frac{d}{dt} c d$   
Define  $a = \frac{mg}{c d}$ ,  $m \frac{dv}{dt} + a v^2 = c d \frac{d}{dt}$  Integrate separation of variables,  $\frac{dv}{c d - a v^2} = \frac{d}{dt}$  A table of integrals can be consulted to find that  $\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \tanh^{-1} \frac{x}{a}$   
Therefore, the integration yields  $\frac{1}{v} = \frac{c d}{a} \dots$

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