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

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Therefore, the integration yields $v = c \tanh$
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Multiply both sides by m/cd . $gv^2 c m dt$
 $dv c m dd = ?$. Define $a = mg /cd$. $a2v^2 dt$
 $dv c m. d = ?$. Integrate by separation of
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