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are given the following  
differential equation with  
the initial condition,  $v(0) = 0$ ,  
 $c \frac{dv}{dt} + \frac{1}{2} m v^2 = mg$   
Multiply both sides  $m \frac{dv}{dt} + m g v^2 = c \frac{dv}{dt}$   
Define  $a = \frac{mg}{c}$   
 $\frac{dv}{dt} + a v^2 = c$   
Integrate separation of  
variables,  $\frac{dv}{c - a v^2} = \frac{1}{c} dt$   
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  $\frac{1}{c} \ln \left| \frac{c + a v}{c - a v} \right| = \frac{1}{c} t$



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 $c g dt dv = ?d$ . Multiply both sides by  $m/cd$ .  $gv^2 c m dt dv$   
 $c m dd = ?$ . Define  $a = mg / cd$ .  $a^2 v^2 dt dv c m. d = ?$ . Integrate by separation of variables,  $dt m c a v ?$   
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