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with the initial  
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 $\frac{dv}{dt} = g - \frac{c}{m} v^2$

Multiply both sides  $m$   
 $\frac{dv}{dt} = m g - c v^2$

Define  $a = \frac{mg}{c}$ ,  $\frac{dv}{dt} = a - v^2$   
 $\frac{dv}{a - v^2} = dt$  Integrate  
separation of

variables,  $\int \frac{dv}{a - v^2} = \int dt$   
 $\frac{1}{2a} \ln \left| \frac{a+v}{a-v} \right| = t + C$

A table of  
integrals can be  
consulted to find that  
 $\int \frac{dx}{1 - x^2} = \frac{1}{2} \ln \left| \frac{1+x}{1-x} \right| + C$

Therefore, the

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integration yields  $1 - v/c \tanh \dots$

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