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differential equation  
with the initial  
condition,  $v(t=0) = 0$ ,  $c$   
 $\frac{dv}{dt} = g - \frac{c}{m} v^2$  Multiply  
both sides  $m \frac{dv}{dt} = m g - c v^2$   
 $\frac{c}{c} \frac{dv}{dt} = \frac{c}{c} \frac{m g}{c} - \frac{c}{c} v^2$  Define  $a = \frac{m g}{c}$   
 $\frac{dv}{dt} = \frac{a}{c} - v^2$   
Integrate separation of  
variables,  $\frac{dv}{a/c - v^2} = dt$   
 $\frac{1}{m} \int \frac{dv}{a/c - v^2} = \int dt$  A table of  
integrals can be  
consulted to find that  $\int \frac{1}{a^2 - x^2} dx = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right| + C$   
Therefore, the  
integration yields  $\frac{1}{2} \ln \left| \frac{a+v}{a-v} \right| = \frac{c}{m} t + C$   
...

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