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both sides  $m \frac{dv}{dt} = m g - v^2$   
 $c \frac{dv}{dt} = m g - v^2$  Define  $a = \frac{m g}{c}$   
 $\frac{dv}{dt} = a - \frac{v^2}{c}$  Integrate separation of variables,  $\frac{dv}{a - \frac{v^2}{c}} = dt$  A table of integrals can be consulted to find that  $\int \frac{1}{a^2 - x^2} dx = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right| + C$   
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 $m \frac{dv}{dt} = -\frac{d}{c} + \frac{m g}{c} v^2$  Define  $a = \frac{m g}{c}$ .  $\frac{dv}{dt} = -\frac{d}{c m} + a v^2$ . Integrate by separation of variables,  $\int \frac{dv}{a v^2 - \frac{d}{c m}} = \int dt$   
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condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} + m \frac{dv^2}{dt} = mg$   
Multiply  
both sides  $m \frac{dv}{dt} + m g v^2 = c \frac{dv}{dt}$   
Define a  $mg - c \frac{dv}{dt} = a v^2$   
Integrate separation of  
variables,  $dv \frac{cd}{a} = v^2 dt$   
A table of  
integrals can be  
consulted to find that  $\int \frac{dx}{x^2 + a^2} = \frac{1}{a} \tanh^{-1} \frac{x}{a}$   
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