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initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = g - \frac{c}{m} v^2$   
Multiply both sides  $m \frac{dv}{dt} = m g - c v^2$   
Define  $a = \frac{mg}{c}$   $\frac{dv}{dt} = a - v^2$



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dt Integrate separation of variables,  $dv$   
cd a  $2 v^2 m dt$  A table of integrals can  
be consulted to find that  $2 dx x^{-1} \tanh$   
2 a a Therefore, the integration yields  
1 v c tanh ...

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