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Steven C. Chapra Tufts University

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integrals can be consulted to find that  
 $2 dx x 1 \tanh 2 a a$  Therefore, the  
integration yields  $1 v c \tanh \dots$

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condition,  $v(t=0) = 0$ ,  $v^2 = m c g \int dt \frac{dv}{cd}$

$= - \frac{d}{c} \int dt \frac{dv}{cd} = - \frac{d}{c} \int dt \frac{dv}{cd}$ . Multiply both sides by  $m/cd$ .

$gv^2 = c m \int dt \frac{dv}{cd} = - \frac{d}{c} \int dt \frac{dv}{cd}$ . Define  $a =$

$mg / cd$ .  $a^2 v^2 = dt \frac{dv}{cd} = - \frac{d}{c} \int dt \frac{dv}{cd}$ .

Integrate by separation of variables,

$dt \frac{dv}{cd} = \frac{d}{c} \int dt \frac{dv}{cd} = - \frac{d}{c} \int dt \frac{dv}{cd}$ .

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