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...1.1 You are given the  
following differential  
equation with the initial  
condition,  $v(t=0) = 0$ ,  $v^2$   
 $m c g dt dv = -d$ . Multiply  
both sides by  $m/cd$ .  $gv^2 c$   
 $m dt dv c m dd = -$ .  
Define  $a = mg /cd$ .  $a^2v^2$   
 $dt dv c m$ .  $d = -$ . Integrate  
by separation of variables,  
 $dt m c a v \int dv = \int d$   
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condition,  $v(t=0) = 0$ ,  $c dv g$   
 $d v^2 dt m$  Multiply both  
sides  $m dv m g v^2 c d dt c$   
 $d$  Define  $a mg c d m dv a^2$   
 $v^2 c d dt$  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  $1 v c$   
 $\tanh$  ...Solution Manual -

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CHAPTER 1 1.1 You are

given the following

differential equation with  
 the initial condition,  $v(t=0)$

$0$ ,  $c \frac{dv}{dt} + v^2 = g$

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

$mg$   $c \frac{dv}{dt} + v^2 = c$  Define  $a$

$mg$   $c \frac{dv}{dt} + v^2 = c$  dt

Integrate separation of

variables,  $\frac{dv}{c} = \frac{a^2 - v^2}{2v^2} dt$

A table of integrals can

be consulted to find that  $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

Therefore, the integration

yields  $\frac{1}{c} \ln \left| \frac{a+v}{a-v} \right| = \frac{g}{2c} t + C$  ...

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