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CHAPTER 1 1.1

You are given  
the following

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differential  
equation with  
the initial  
condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = mg - \frac{c}{2} v^2$ . Multiply  
both sides  $m \frac{dv}{dt} = mg - \frac{c}{2} v^2$ .  
 $\frac{dv}{dt} = \frac{mg}{m} - \frac{c}{2m} v^2$ . Define  $a = \frac{mg}{m}$ ,  $c = \frac{c}{2m}$ .  
 $\frac{dv}{dt} = a - c v^2$ . Integrate  
separation of  
variables,  $\int \frac{dv}{a - c v^2} = \int \frac{dt}{1}$ . A

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table of

integrals can be  
consulted to

find that  $\int \frac{dx}{x^2}$

$= -\frac{1}{x} + C$

Therefore, the  
integration

yields  $\frac{1}{v} + C$

$\frac{1}{\tanh^{-1} x} + C$

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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

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$a = mg / cd. a^2v^2$   
 $dt dv c m. d = ?.$   
Integrate by  
separation of  
variables,  $dt m$   
 $c a v ? dv = ? d^2$   
 $?^2.$

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