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University CHAPTER

1 1.1 You are given  
the following  
differential equation  
with the initial

condition,  $v(t=0) = 0$ ,  $c$   
$$m \frac{dv}{dt} = -mg - \frac{1}{2} C_d \rho A v^2$$

Multiply both sides  $m$

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$dv/dt = -g - \frac{c}{m}v^2$

Define  $a = -g - \frac{c}{m}v^2$   
 $\frac{dv}{dt} = a$   
Integrate  
separation of

variables,  $\int \frac{dv}{a} = \int \frac{1}{-g - \frac{c}{m}v^2} dv$

A table of  
integrals can be

consulted to find that  
 $\int \frac{1}{-g - \frac{c}{m}v^2} dv = \frac{1}{\sqrt{g^2 + \frac{4c}{m}}} \tanh^{-1} \frac{\sqrt{g^2 + \frac{4c}{m}} v}{-g}$

Therefore, the  
integration yields  
 $v = \frac{-g}{\sqrt{g^2 + \frac{4c}{m}}} \tanh \left( \sqrt{g^2 + \frac{4c}{m}} t \right)$

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separation of

variables, dt m c a v

$$dv = d^2 - 2.$$

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