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 $\frac{d}{dt} \left( \frac{1}{2} m v^2 \right) = m g$  Multiply both sides by  $m/c$   
 $m \, dv = g \, dt$  Define  $a = mg / c$

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As Integer Dim a As Double, b As

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Double, i1 As Double, r2 As Double, i2  
As Double a = 1: b = 7: c = 2 Call  
Roots (a, b, c, ier, r1, i1, r2, i2) If ier =  
0 Then MsgBox "No roots" Else If ier =  
1 Then MsgBox "single root=" & r1  
Else If ier = 2 Then MsgBox "real roots  
= " & r1 & ", " & r2 Else If ier = 3 Then

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```
MsgBox "complex roots =" & r1 & "," &  
i1 & " i" & "; " & r2 & "," & i2 & " i" End  
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 $m$  Multiply both sides  $m \frac{dv}{dt} = m g - c d v^2$   
 $\frac{dv}{dt} = \frac{m g}{c d} - v^2$  Define  $a = \frac{m g}{c d}$   $\frac{dv}{dt} = a - v^2$



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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  
 $1 v c \tanh \dots$

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Multiply the integrating factor with equation (1) as follows: Thus, the general solution of the given differential equation is. Step 4 of 4 It is given that the initial velocity is non-zero.

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Solution of variables,  $dt = m c a v ?$   
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