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are given the following differential equation with the initial condition,  $v(0) = 0$ ,  $c \frac{dv}{dt} = mg - \frac{1}{2} \rho C_d A v^2$

Multiply both sides  $m \frac{dv}{dt} = mg - \frac{1}{2} \rho C_d A v^2$   
Define  $a = \frac{mg}{c}$   
 $\frac{dv}{dt} = a - \frac{1}{2} \rho C_d A v^2$

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variables,  $dv = cd a^2 v^2 m$   
dt A table of integrals can  
be consulted to find that  $\int \frac{1}{1 + \tanh^2 x} dx = x + \frac{1}{2} \ln \frac{1 + \tanh x}{1 - \tanh x} + C$ . Therefore,  
the integration yields  $\frac{1}{v} = c \tanh \dots$

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next step. Step 5: Add  $v$   
alue from top card to sum.  
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1. Step 7: Discard top card.

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```
Option Explicit Sub Rootfind
() Dim ier As Integer Dim a
As Double, b As Double, c As
Double Dim r1 As 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
```

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```
Then MsgBox "No roots"
```

```
ElseIf ier = 1 Then MsgBox
```

```
"single root=" & r1 ElseIf
```

```
ier = 2 Then MsgBox "real
```

```
roots = " & r1 & ", " & r2
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ElseIf ier = 3 Then MsgBox
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"complex roots =" & r1 & ", "
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& i1 & " i" & "; "_ & r2 &
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