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$$2 b(i) = a(i) \dots$$

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given the following differential
equation with the initial condition, $v(0) = 0$,
 $c \frac{dv}{dt} + g v^2 = m$ Multiply both
sides $m \frac{dv}{m} + m \frac{g}{c} v^2 = c \frac{d}{dt} c \frac{d}{dt}$ Define a

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mg c d m dv a² v² c d dt Integrate
separation of variables, dv cd a² v²
m dt A table of integrals can be
consulted to find that $\int \frac{dx}{x^2 + 1} = \tan^{-1} x + C$
a a Therefore, the integration ...

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chapra 1. CHAPTER 22.1 IF $x < 10$

THEN IF $x < 5$ THEN $x = 5$ ELSE PRINT x

END IF ELSE DO IF $x < 50$ EXIT $x = x - 5$

END DO END IF 2.2 Step 1: Start Step 2:

Initialize sum and count to zero Step

3: Examine top card. Chapra-

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For example, the following MATLAB
script was developed to use the
function from section 2.5 to compute
and tabulate the numerical results for
the value at $t = 12$ s, along with an

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estimate of the absolute value of the true relative error based on the analytical solution: `clc; format compact m=68.1; cd=12.5; ti=0; tf=12.; vi=0; vtrue=9.81 * m/cd*(1-exp(-cd/m*tf)) dt=[2 1 0.5]'; for i = 1:3 v(i)=euler(dt(i),ti,tf,vi,m,cd); end`

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```
et=abs((vtrue-v)/vtrue*100); z=[dt v'  
et]'; fprintf(' dt v(12) et(pct ...
```

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50 EXIT $x = x - 5$ END DO END IF 2.2

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