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See the matlab code in the le prob72.m.

Problem 7.3 The algorithm BS23 can be represented by the

following sequence of steps  $s_1 = f(t_n; y_n)$  (5)

$s_2 = f(t_n + h/2; y_n + h/2 s_1)$  (6)  $s_3 = f(t_n + 3/4 h; y_n + 3/4 s_2)$  (7)

$y_{n+1} = y_n + h/9 (2s_1 + 3s_2 + 4s_3)$  (8) Part

(a): The specific ODE's (and their exact

solutions) to consider are given by  $dy/dt = 1$

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)  $y = t + C$  (9)  $dy/dt = t$  )

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 $y = t^2/2 + C$  (10)  $dy/dt$

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

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

Multiply

both sides  $m \frac{dv}{dt} = mg - \frac{c}{2} v^2$

Define  $a = mg$

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

Integrate separation of

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

A table of

integrals can be

consulted to find that  $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right| + C$

Therefore, the

integration yields  $\frac{1}{2} \ln \left| \frac{a + \frac{c}{2m} v^2}{a - \frac{c}{2m} v^2} \right| = t + C$

$\ln \left| \frac{a + \frac{c}{2m} v^2}{a - \frac{c}{2m} v^2} \right| = 2t + C'$

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