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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)  $y_{n+1} = y_n + h(2s_1 + 3s_2 + 4s_3)$  (8) Part (a): The specific ODE's (and their exact solutions) to consider are given by  $dy/dt = 1$  )  $y = t + C$  (9)  $dy/dt = t$  )  $y = t^2/2 + C$  (10)  $dy/dt$

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Multiply both sides  $m \frac{dv}{dt} + mg = v^2$   $c \frac{dv}{dt} + mg = v^2$  Define  $a = mg/c$   $m \frac{dv}{dt} + a = v^2$   
 $a = \frac{mg}{c}$   $\frac{dv}{dt} + \frac{a}{m} = \frac{v^2}{m}$  Integrate separation of variables,  $\int \frac{dv}{v^2 - \frac{a}{m}} = \int \frac{dt}{m}$   
A table of integrals can be consulted to find that  $\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \ln \left| \frac{x+a}{x-a} \right| + C$   
Therefore, the integration yields  $\frac{1}{2a} \ln \left| \frac{v+a}{v-a} \right| = \frac{t}{m} + C$  ...

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