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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 $dy/dt = 1$) $y = t + C$ (9) $dy/dt = t$) $y = t^2/2 + C$ (10) dy/dt

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