$Y''(t) + Sin(Y(t)) = 0, \quad Y(0) = 1, \quad Y'(0) = 0$ Convert To First order system $Y'' = f(t, y, y', ..., y'^{(n-1)}) = y''(t) = -Sin(Y(t)).$ $Y' = Y, \quad Y_2 = y', \quad Y_3 = y''.$ $Y' = Y_2, \quad Y_4 = Y_3$ Y'(t) + Sin(Y(t)) = 0 Y''(t) + Sin(Y(t)) = 0

