$y' = 2y, \quad y(0) = 1 = 0.$ PREVIOUR: $U_{n+1} = U_n + \frac{h}{2}(f(U_n) + f(U_{n+1}^k))$ $U_{n+1}^{k+1} = U_n + \frac{h}{2}(2U_n + 2U_{n+1}^k)$ FOR k = 0, n = 0: $U_1' = U_0 + \frac{h}{2}(2U_0 + 2U_1^k)$ $U_1' = U_0 + \frac{h}{2}(2U_0 + 2U_1^k)$ $U_1' = U_0 + \frac{h}{2}(2U_0 + 2U_1^k)$ $U_2' = U_0 + \frac{h}{2}(2U_0 + 2U_1^k)$ $U_1' = U_0 + \frac{h}{2}(2U_0 + 2U_1^k)$ $U_2' = U_0 + \frac{h}{2}(2U_0 + 2U_1^k)$ $U_1' = U_0 + \frac{h}{2}(2U_0 + 2U_1^k)$ $U_2' = U_0 + \frac{h}{2}(2U_0 + 2U_1^k)$ $U_1' = U_0 + \frac{h}{2}(2U_0 + 2U_1^k)$ $U_2' = U_0 + \frac{h}{2}(2U_0 + 2U_1^k)$

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