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$$y_1' = y_2$$

$$k_1 = y_1$$

$$k_2 = \left(1 + \frac{h}{2}\right) y_1$$

$$k_3 = \left(1 + \frac{h}{2} + \frac{h^2}{4}\right) y_1$$

$$k_4 = \left(1 + h + \frac{h^2}{2} + \frac{h^3}{4}\right) y_1$$

$$y_{n+1} = \left(1 + h + \frac{h^2}{2} + \frac{h^3}{6} + \frac{h^4}{24}\right) y_n$$

$$y(1) \approx y_{n+1}(1) \approx 1.64844$$