2b

$$TUID = \frac{9+1+5+1+8+7+2+8+9}{9} \approx 5.555\overline{5} = \alpha$$

$y(0) = -1$

time step

① define predictor $y^* = y_n + h \times \frac{dy}{dt}$ (predicted value @ next step)

② define corrector $y_{n+1} = y_n + \frac{h}{2}\left(\left.\frac{dy}{dt}\right|_{t_n, y_n} + \left.\frac{dy}{dt}\right|_{t_{n+1}, y^*}\right)$

y_{n+1} ← corrected value

in python I'll probaly make an enumerated for loop with the table "t" values