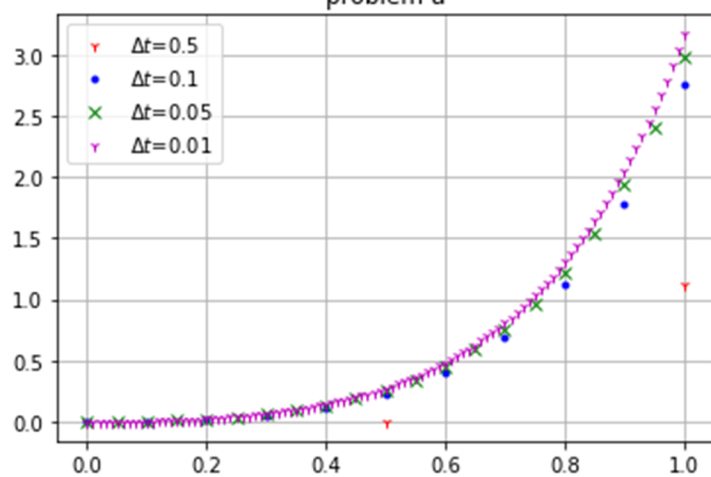


problem a



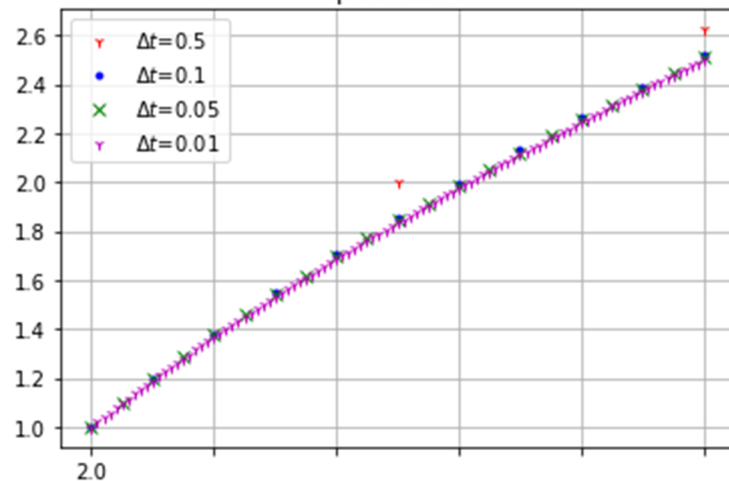
$$y' = te^{3t} - 2y$$

$$0 \leq t \leq 1$$

$$y(t=0) = 0$$

(1)

problem b



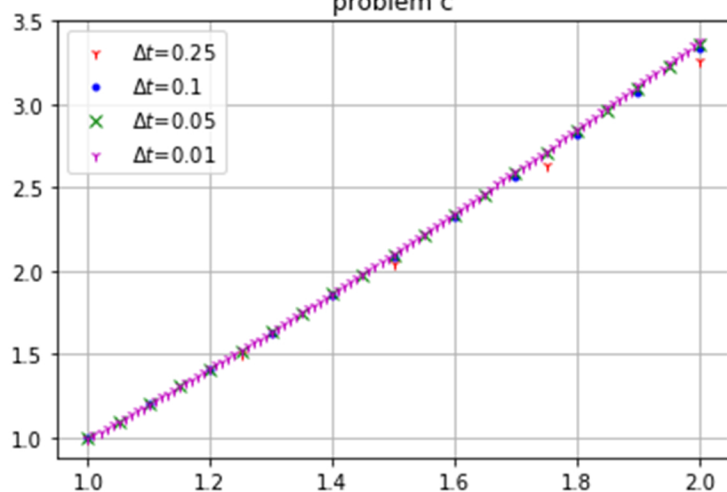
$$y' = 1 + (t - y)^2$$

$$2 \leq t \leq 3$$

$$y(t=2) = 1$$

(2)

problem c



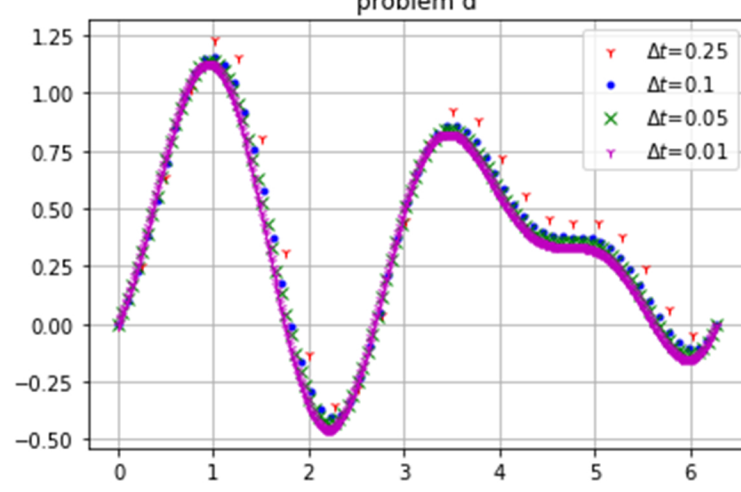
$$y' = 1 + \frac{y}{t}$$

$$1 \leq t \leq 2$$

$$y(t=1) = 1$$

(3)

problem d



$$y' = \cos(2t) + \sin(3t)$$

$$0 \leq t \leq 2\pi$$

$$y(t=0) = 0$$

(4)