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Assignment: HW 1

Due                Date:                          Friday                  September                  8

**Problem 1.**
$$y' = cy$$
$$y(0) = 1.$$

$$y'(t) = f(t, y), \text{ with } y(t_0) = y_0.$$

$$\Delta y = y'(x)\Delta x.$$

$$y(t) = y(t_0) + \int_{t_0}^{t} f(x, y(x))dx.$$

*Solution.*                                                                                                          □

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**Problem 2.**

*Solution.* □

**Problem 3.**

*Solution.* □

**Problem 4.**

*Solution.* □

**Problem 5.**

*Solution.* □

**Problem 6.**

*Solution.* □