ii) Solve the following system of linear equations by the Gauss-Seidel iterative method.

$$10x - 5y - 2z = 3$$

$$4x - 10y + 3z = -3$$

$$x + y + 8z = 20$$

i) Solve, by Euler's method of the equation $\frac{dy}{dx} = x + y, \; y(0) = 1, for \; 0 \leq x \leq 1 \; taking \; h =$ 0.1.