

Attendance Quiz for Lecture 2 of Dr. Z.'s Dynamical Models in Biology class

Name: (print!)

Email: (print!)

1. Solve the following differential equation, subject to the given initial conditions

$$y''(x) - y(x) = 0 \quad ; \quad y(0) = 2 \quad , \quad y'(0) = 2 \quad .$$

2. Find all the eigenvalues and corresponding eigenvectors of the matrix

$$\begin{bmatrix} -2 & -3 \\ 4 & 5 \end{bmatrix}$$