

Quiz 12

Homogeneous Linear Systemss with Constant Coefficients

(20 points) Solve the initial value problem

$$\mathbf{x}'(t) = \begin{bmatrix} 1 & 2 & -1 \\ 1 & 0 & 1 \\ 4 & -4 & 5 \end{bmatrix} \mathbf{x}(t), \quad \mathbf{x}(0) = \begin{bmatrix} -1 \\ 0 \\ 0 \end{bmatrix}.$$

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Special number: _____ Name: _____
Section Number: _____ PUID: _____