

Quiz # 6

Name: \_\_\_\_\_

Date: 13/10/2022

Math 54: Fall 2022

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**Problem 1 - 5 Points**

Determine if the following matrices are diagonalisable: 1)  $\begin{bmatrix} 2 & -1 \\ 0 & -3 \end{bmatrix}$  2)  $\begin{bmatrix} 2 & 0 & 0 \\ 1 & 1 & -1 \\ 1 & -1 & 1 \end{bmatrix}$

**Problem 3 - 5 Points**

Diagonalise the following matrix

$$A = \begin{bmatrix} 3 & -2 \\ 1 & 1 \end{bmatrix}$$