

Name: _____ Sort #: _____

Worksheet 19: Linear Algebra Tutorial II

MATH 2310, Spring 2019

Grade: _____ / 40

1. (20 pts) Find the eigenvalues and eigenvectors of the matrix $A = \begin{bmatrix} 5 & -1 \\ 3 & 1 \end{bmatrix}$

2. (20 pts) Find the eigenvalues and eigenvectors of the matrix $A = \begin{bmatrix} 1 & 0 & 0 \\ 2 & 1 & -2 \\ 3 & 2 & 1 \end{bmatrix}$