Math 308 E, Spring 2018 quiz 6

You have 5 minutes to complete the quiz. This quiz is out of 10 points.

Name:		

Consider the 3 by 3 matrix $\frac{1}{2}$

$$A = \begin{bmatrix} 0 & 1 & 3 \\ 4 & 0 & 2 \\ 0 & 0 & 1 \end{bmatrix}$$

1. (6 points) What are the eigenvalues of A?

2. (4 points) Give any eigenvalue-eigenvector pair (v, λ) for A.

3. (For glory) Is A diagonalizable?