

Quiz 8

Name: _____

Math 568

February 18, 2008

Suppose

$$A = \begin{bmatrix} 1 & 2 \\ -1 & 4 \end{bmatrix}.$$

1. (2 points). Find the characteristic polynomial of A
2. (1 point). Find the eigenvalues of A .
3. (2 points). For each eigenvalue find a corresponding eigenvector.