

Name: _____

Math 2250, Fall 2011, Quiz 12

December 2, 2011

R. Bruner

1. State precisely what it means to say that λ is an eigenvalue of the linear transformation $T : V \rightarrow V$.

2. Find the eigenvalues of

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

3. Find the eigenspace for each eigenvalue of A .