Math 2250-010
Quiz 8
April 4, 2014

1) Consider the matrix

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

1a) Find the eigenvalues and eigenvectors (eigenspace bases).

(9 points)

1b) Give a reason to explain why the two vectors you found in part (a) form a basis for $\mathbb{R}^2$.

(1 point)