MA552. Homework 5

Homework due October 3, 2006

Find eigenvalues and eigenvectors of the following matrices:

(1) $A = \begin{pmatrix} 5 & 1 & 4 \\ 3 & 3 & 2 \\ 6 & 2 & 10 \end{pmatrix}$

(2) $A = \begin{pmatrix} 11 & -6 & 2 \\ -6 & 10 & -4 \\ 2 & -4 & 6 \end{pmatrix}$

(3) $A = \begin{pmatrix} 6 & 3 & 2 \\ 3 & 6 & 2 \\ 2 & 2 & 1 \end{pmatrix}$