

Due 11/17/11

Math 215 Sect. 6 HW

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Let

$$A = \begin{bmatrix} -6 & 2 & 4 \\ -4 & 4 & 0 \\ -4 & 2 & 2 \end{bmatrix}.$$

- (a) Find the eigenvalues of A .
- (b) Is A diagonalizable? If so, find a basis of eigenvectors. If not, say why not.