

Quiz 9
Math 230

1. Find all eigenvalues of the matrix

$$A = \begin{bmatrix} -10 & -4 \\ 30 & 12 \end{bmatrix}.$$

Then find *all* eigenvectors associated with each eigenvalue. If A is diagonalizable, then diagonalize it. If not, explain why not. Finally, find e^A (don't have to multiply out all matrices in your answer).