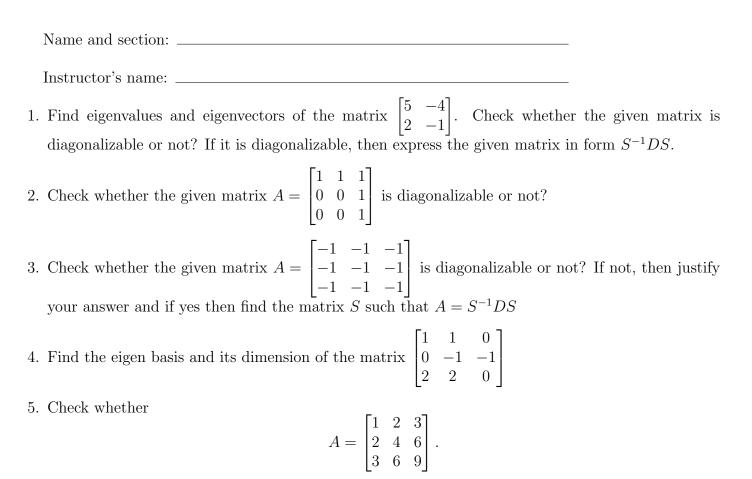
Tutorial Worksheet-5 (WL6.1) Eigenvalues, Eigenvectors, Diagonalisation of matrices, LU Decomposition



is diagonalizable or not. If it is diagonalizable then using the diagonal matrix find the rank and determinant of A. Also find A^5 .

6. Find the solution of system of equations

$$x - 3y + 5z = 1$$

$$2x - 4y + 7z = 1$$

$$-x - 2y + z = 1$$

using LU factorization method.