

Mathematical Methods - Homework 1

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Exercise 1

- Let:

$$B = \begin{pmatrix} 2 & 3 & 1 \\ 1 & 1 & 1 \\ 5 & -1 & 10 \end{pmatrix}$$

- Find:
 - 1 Determinant of the matrix B
 - 2 Adjoint matrix of B
 - 3 Inverse of B

Exercise 2

- A non-singular matrix C has eigenvalues λ_j and eigenvectors x_j . Find the eigenvalues and eigenvectors of the inverse matrix C^{-1}