

Matrix Operations

- Transpose, sum & difference, scalar multiplication

Assignment Project Exam Help

- matrix multiplication, matrix-vector product

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- matrix inverse

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- Eigenvalue, Eigenvector

Matrix Addition

a)
$$\begin{bmatrix} 4 & -3 & 1 \\ 0 & 5 & -2 \\ 5 & -6 & 0 \end{bmatrix} + \begin{bmatrix} -1 & 2 & 3 \\ 6 & -7 & 9 \\ 0 & -4 & 8 \end{bmatrix}$$

b) Transpose
$$\begin{bmatrix} 3 & 1 & -1 \\ 2 & 0 & 3 \end{bmatrix}$$

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c)
$$5 \times \begin{bmatrix} -1 & 2 & 3 \\ 6 & -7 & 9 \\ 0 & -4 & 8 \end{bmatrix}$$

d)
$$\begin{bmatrix} 10 & 5 & 8 & 3 \end{bmatrix} \begin{bmatrix} 12,500 \\ 11,800 \\ 15,900 \\ 25,300 \end{bmatrix} =$$

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e)
$$\begin{bmatrix} 3 & 1 & -1 \\ 2 & 0 & 3 \end{bmatrix} \times \begin{bmatrix} 1 & 6 \\ 3 & -5 \\ -2 & 4 \end{bmatrix}$$

f)
$$\begin{bmatrix} 1 & 0.5 \\ 0.5 & 1 \end{bmatrix}$$
 Eigenvalue=?
Eigenvector=?

g)
$$\begin{bmatrix} 4 & 8 \\ 1 & 3 \end{bmatrix}$$
 Inverse=?