

## Linear Algebra Study Guide

1.) Find the determinant of each of the following.

a.)  $\begin{pmatrix} 8 & 1 & 6 \\ 4 & 0 & 3 \\ 3 & -2 & 5 \end{pmatrix}$

b.)  $\begin{pmatrix} 2 & 3 & -4 \\ 4 & 0 & 5 \\ 5 & 1 & 6 \end{pmatrix}$

c.)  $\begin{pmatrix} 3 & 5 & -8 & 4 \\ 0 & -2 & 3 & -7 \\ 0 & 0 & 1 & 5 \\ 0 & 0 & 0 & 2 \end{pmatrix}$

2.) Find the inverse of each.

a.)  $\begin{pmatrix} 1 & 3 & 2 \\ 1 & 1 & 1 \\ 2 & 3 & 1 \end{pmatrix}$

b.)  $\begin{pmatrix} 4 & 3 & 1 \\ 6 & 5 & 2 \\ 8 & 6 & 3 \end{pmatrix}$

3.) Use the inverse to solve the equations.

a.)  $5x_1 + 7x_2 = 3$

$2x_1 + 4x_2 = 1$

b.)  $x_1 + x_2 = 3$

$-3x_1 + \quad + 2x_3 = 0$

$x_2 - 2x_3 = 2$

4.) Let  $A = \begin{pmatrix} 1 & 5 & 7 \\ 2 & 3 & 8 \\ 0 & 6 & 4 \end{pmatrix}$  and  $B = \begin{pmatrix} 7 & 2 & -3 \\ 5 & -8 & 1 \end{pmatrix}$

Compute  $AB^T$

5.) Determine if the sets are Linear Independent

a.)  $\begin{pmatrix} 2 \\ -2 \\ 1 \end{pmatrix} \begin{pmatrix} 1 \\ -3 \\ 2 \end{pmatrix} \begin{pmatrix} -7 \\ 5 \\ 4 \end{pmatrix}$

b.)  $\begin{pmatrix} 1 \\ 2 \\ -3 \end{pmatrix} \begin{pmatrix} -4 \\ -5 \\ 6 \end{pmatrix}$

6.) Let  $W$  be the set of all vectors of the form  $\begin{pmatrix} s + 3t \\ s - t \\ 2s - t \\ 4t \end{pmatrix}$

Find a vector  $u$  and  $v$  such that  $W = \text{span}(u, v)$

# Linear Algebra Study Guide

**Mike Jess**



## **Linear Algebra Study Guide:**

## Enjoying the Track of Expression: An Psychological Symphony within **Linear Algebra Study Guide**

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