



Lecture Notes

Linear Algebra

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Chapter 1

Lecture 1: Vector

1.1 Vector & Linear Combinations

1.1.1 Linear Combination

$$cv + dw = c \begin{bmatrix} 1 \\ 1 \end{bmatrix} + d \begin{bmatrix} 2 \\ 3 \end{bmatrix} = \begin{bmatrix} c + 2d \\ c + 3d \end{bmatrix}$$

1.1.2 Column Vector

$$v = \begin{bmatrix} v_1 \\ v_2 \end{bmatrix}$$

Where v_1 is the first component of v .

Where v_2 is the second component of v .