



Lecture Notes

Linear Algebra

Software Engineering Program,
Department of Computer Engineering,
School of Engineering, KMITL

67011352 Theepakorn Phayonrat[0.5cm]

Contents

1	Lecture 1: Vector	2
1.1	Vector & Linear Combinations	2
1.1.1	Linear Combination	2
1.1.2	Column Vector	2

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 .