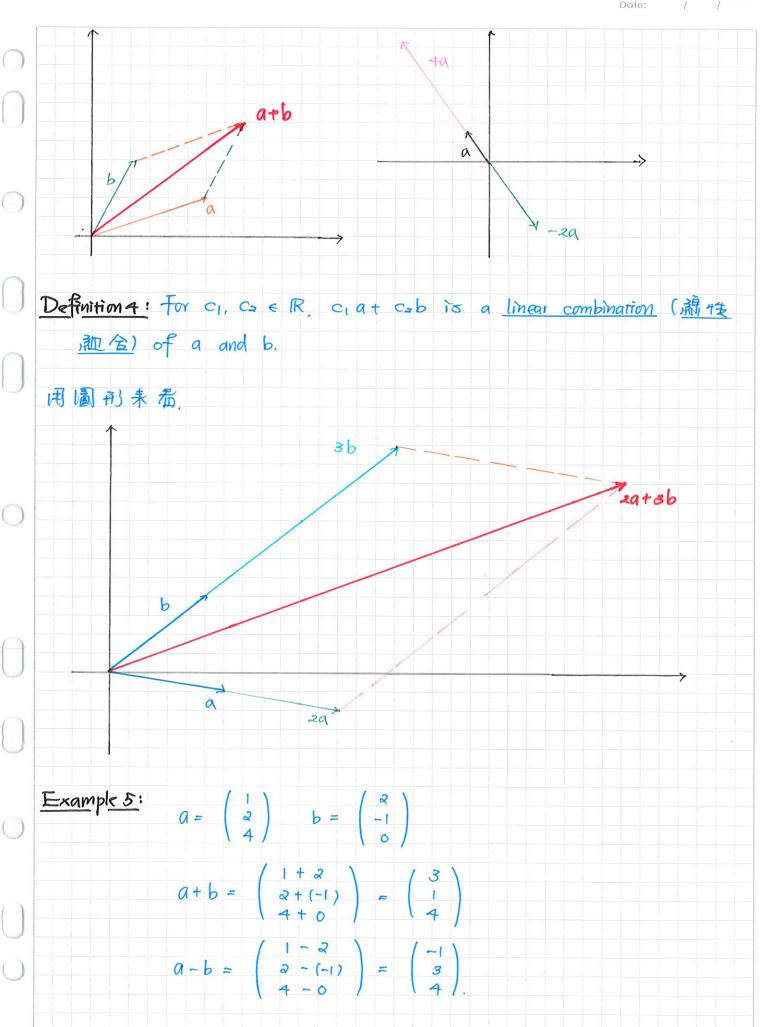
Matrics and Gaussian Elimination (矩阵照馬斯浦玄话) 這章.我門主要是介級無陣及解稿按联立方程施 1.1 Vectors and linear combinations (向量與親性融合) Notation 1: IR = the collection of all real numbers $\mathbb{R}^2 = \mathbb{R} \times \mathbb{R} = \left\{ \begin{pmatrix} a_1 \\ a_2 \end{pmatrix} : a_1, a_2 \in \mathbb{R} \right\}$ $\mathbb{R}^3 = \mathbb{R} \times \mathbb{R} \times \mathbb{R} = \left\{ \begin{pmatrix} a_1 \\ a_2 \\ a_3 \end{pmatrix} : a_1. a_2. a_3 \in \mathbb{R} \right\}$ $\mathbb{R}^n = \left\{ \begin{pmatrix} a_1 \\ a_2 \\ \vdots \\ a_n \end{pmatrix} : a_1. a_2, \dots a_n \in \mathbb{R} \right\} : \underline{n-dimensional} \; \underline{\text{Euclidean space}}.$ $a = \begin{pmatrix} a_1 \\ a_2 \\ \vdots \end{pmatrix}$: n-dimensional vector (n 航度版面量) ai: ith component (学)個分量) for i=1.2....n. Notation $a: a = \begin{bmatrix} a_1 \\ a_2 \\ \vdots \end{bmatrix}, b = \begin{bmatrix} b_1 \\ b_2 \\ \vdots \end{bmatrix} \in \mathbb{R}^n, c \in \mathbb{R}.$ vector addition (面量 brit): a+b= a+b= scalar multiplication (常敬乘話): c·a= ca;

Remarks:用類可圖的未看:



		Date: / /
0	$3a + ab = \begin{pmatrix} 3 \\ 6 \\ 1a \end{pmatrix} + \begin{pmatrix} 4 \\ -2 \\ 0 \end{pmatrix} = \begin{pmatrix} 7 \\ 4 \\ 1a \end{pmatrix}$	
0	$4a-3b = \begin{pmatrix} 4 \\ 8 \\ 16 \end{pmatrix} - \begin{pmatrix} 6 \\ -3 \\ 0 \end{pmatrix} = \begin{pmatrix} -2 \\ 11 \\ 16 \end{pmatrix}$	
0		
0		
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