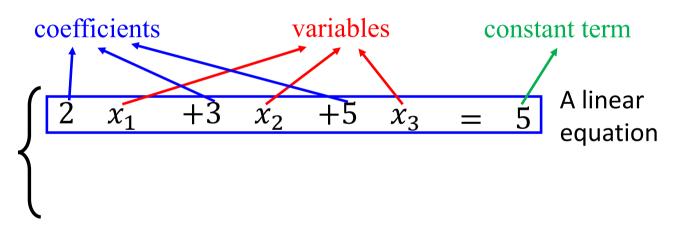
Linear System = System of Linear Equations

Hung-yi Lee

李宏毅

Review

A system of linear equations

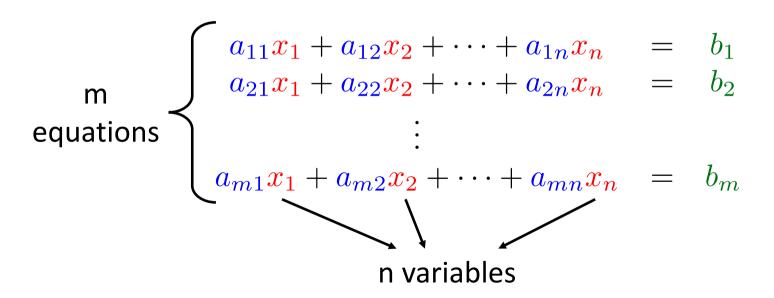


a system of linear equations

I believe you know how to solve it.

Review

• A system of linear equations (多元一次聯立方程式)



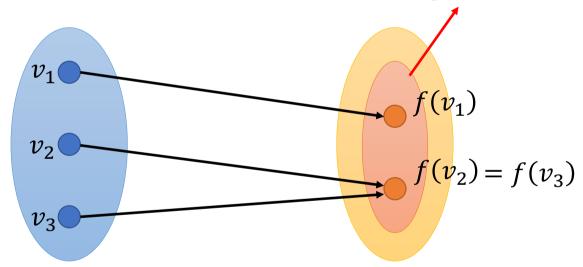
In this course, m and n can be large

Review - Terminology

What <u>actually</u> come out of function f

Given a function f

Range (值域)



Domain (定義域)

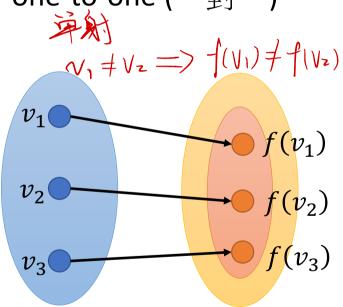
What can go into function f

Co-domain (對應域)

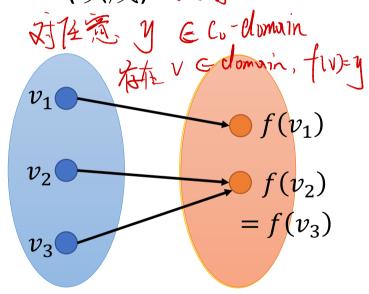
What <u>may possible</u> come out of function f

Review - Terminology

| * one-to-one (一對一)



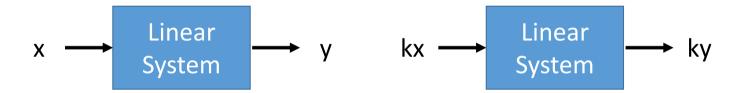
保証 有解 一个或好解 • Onto (映成) 為射



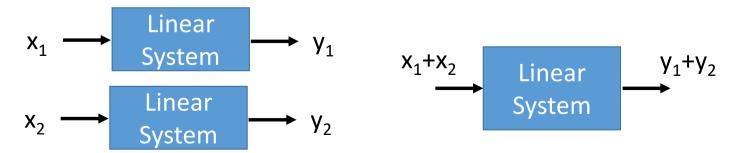
Co-domain = range

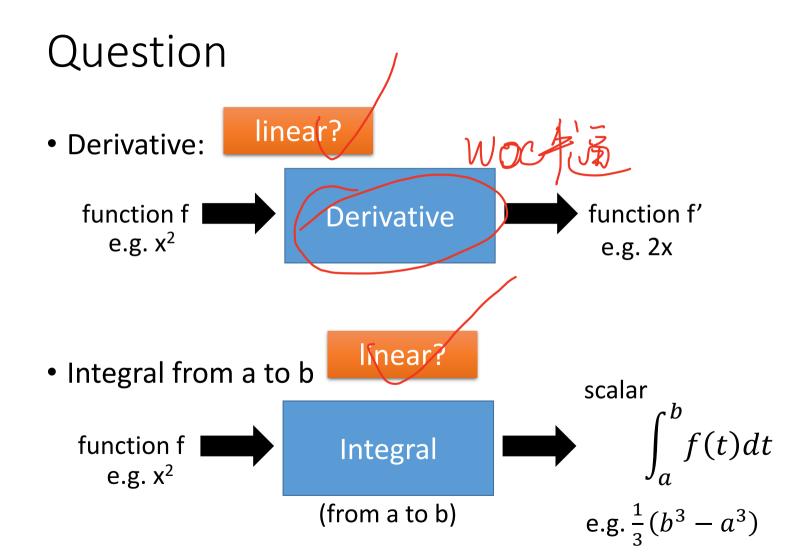
Review - Linear System

- Linear system have two properties
 - 1. Persevering Multiplication



• 2. Persevering Addition





Linear System v.s. System of Linear Equations

