Chap 2 行列式

922高階行列式

Def.

A:nxn,A之determinant,det(A) 习近迴定義的下

12) N = 1. det (A) = an det (An) - an (An) + ··· + (-1) *** Con det (Am) 其中, Aij 表 A中 去掉 第 i 列, 第 j 约 的
(N-1) x (N-1) submatrix

Thm

Thm A.nin. A. det (A) = det (AT) pf. (By induction on n) n=1. ,成豆 設儿士,成立 consider , n= kt . & B=AT det (A) = an det (An) - and det (A12) + ... + (-1) Ifn ain det (Ain) = an det (A) - au det (A) + + (-1) + an det (A) = bn det (Bn) - bsi det (B21) + ... + (-1) htl bni det (Bni) = det (B) = det (AT)