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74상 대수적 왕도와 기하저 왕도 (2)
                                     (Algebraic multiplicity and geometric multiplicity (2))
    Thm A: mxm 행렬
                                         JA 放 入의 대代 考整章 A
                       기하지 중복도를 열라고 하면
항상 A ≥ 9 이다. (A-AZ)X=0
g = dīm(S) S= {x e | R<sup>m</sup> | Ax = \lambda x }
B= {x, \dots, \dots, \dots, \dots, \dots
                               S C RM
Ly E = {x1,x2,...,xn}
                  T = [x, x, ... xy y, ... ym-g] = [x]

AT = [x, x, ... xy y, ... ym-g] = [xm]
                                                                                                                                                                                                                                                   AT: (nxm) · (mxm)
                                     = \begin{bmatrix} \lambda_{x_1} & \lambda_{x_2} & \lambda_{x_3} & \lambda_{x_4} & \lambda_{x_5} & \lambda_{x_6} \\ = \begin{bmatrix} \lambda_{x_1} & \lambda_{x_2} & \lambda_{x_5} & \lambda_{x_6} \\ \end{pmatrix} \begin{bmatrix} \lambda_{y_1} & \lambda_{y_2} & \lambda_{y_3} & \lambda_{y_4} \\ \lambda_{y_1} & \lambda_{y_2} & \lambda_{y_5} & \lambda_{y_6} \end{bmatrix}
                                   = \begin{bmatrix} \lambda \times_{m} & ]_{(m,q)} = \begin{bmatrix} \times & \chi \\ \end{pmatrix} \begin{bmatrix} \lambda \end{bmatrix} \begin{bmatrix} \lambda \end{bmatrix} \begin{bmatrix} \lambda \end{bmatrix} \begin{bmatrix} y & g & g \times (m,q) \\ m & g \times g & g \times (m,q) \end{bmatrix}
= \begin{bmatrix} \lambda \times_{m} & [m+q) \times g & [m+q] 
   [x, ... xg] = x, [y, ... ym-g]=Y
             [x_1x_2...x_g]Q + [y_1...y_{m-g}] \cdot 5 = A[y_1...y_{m-g}]

\begin{bmatrix}
S_1 S_2 \cdots S_{m-g} \\
F(x) = Ax \\
XQ_1 + YS_1 = Ay_1 = F(y_1)

XQ_2 + YS_2 = Ay_1 = F(y_2)

                                                                                                              xam-g+rsm-g = Aym-g = f(ym-g)
                           AT = T [ AI Q ]
                            = [x Y] | NI Q ]

A = T [ NI Q ] T-1 (3t)

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                                det (cI-A) = det(cI-Dosj) = det(cI-NI)
                                                                                                                  = \det \left( \begin{bmatrix} (c-\lambda)I & -Q \\ 0 & J+g & cI-S \end{bmatrix} \right) = \underbrace{(c-\lambda)^{m}}_{c-1}
                                                                                                                = det ((C-2)I) det (CI-S)
                                                                                                             = (c-x)9 det (CI-S)
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