§3. MA TRẬN NGHỊCH ĐẢO

Trong bài này, bạn sẽ học

- Khái niệm ma trận khả nghịch và ma trận đảo của một ma trận vuông;
- · Các tính chất ma trận khả nghịch;
- Điều kiện cần và đủ để một ma trận vướng khả nghịch;
- Hai cách cơ bản tìm ma trận đảo của một ma trận khả nghịch;
- Úng dụng ma trận đảo để giải phương trình ma trận và hệ phương trình tuyến tính.

3.1. Djnh nghĩa

Ma trận vuông $A = [a_{ij}]_{nxn}$ gọi là **khả nghịch** nếu có ma trận $B = [b_{ij}]_{nxn}$ sao cho

$$AB = I_{\pi} = BA$$

Khi đó B gọi là ma trận nghịch đảo hay ma trận đảo của A, ký hiệu là A.1.

Vây A khả nghịch khi và chỉ khi tổn tại A^{-1} và $AA^{-1} = I_n = A^{-1}A$

Ví dụ I Với
$$A = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix}, B = \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix}$$
. Ta có

$$AB = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix} \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix} \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix} = BA$$

Vậy A khả nghịch và $A^{-1} = \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix} = B$; B khả nghịch và $B^{-1} = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix} = A$.

Lưu ý Với $A = [a_{ij}]_{n \times n}$, $B = [b_{ij}]_{n \times n}$: $AB = I_n$ khi và chỉ khi $BA = I_n$.

3.2. Tính chất

● Ma trận đảo của ma trận A (nếu có) thì duy nhất và (A⁻¹) -1 = A

9 Nếu A khả nghịch thì A^T cũng khả nghịch và $(A^T)^{-1} = (A^{-1})^T$

Nếu A = $[a_{ij}]_{axa}$, B = $[b_{ij}]_{axa}$, C = $[c_{ij}]_{axa}$ khả nghịch thì tích AB, ABC cũng khả nghịch và $(AB)^{-1} = B^{-1}A^{-1} ; (ABC)^{-1} = C^{-1}B^{-1}A^{-1}$

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