

Properties of adjoint matrix

- If A is a symmetric matrix, then $\text{adj}(A)$ is also a symmetric matrix.

$$A = \begin{bmatrix} a & b \\ b & c \end{bmatrix} \Rightarrow \text{adj}(A) = \begin{bmatrix} c & -b \\ -b & a \end{bmatrix}$$

- If A is a singular matrix, then $\text{adj}(A)$ is also a singular matrix.

$$|A| = 0 \Rightarrow |\text{adj}(A)| = 0 \quad |\text{adj}(A)| = |A|^{n-1}$$

be memorable