

5) Skew Symmetric part of the matrix  $\begin{bmatrix} 1 & 1 & 5 \\ -1 & 1 & 1 \\ 3 & -1 & 2 \end{bmatrix}$

Skew-Symmetric =  $\frac{1}{2}(A+A^T) - \frac{1}{2}(A-A^T)$

$$A = \begin{bmatrix} 1 & 1 & 2 \\ -1 & 1 & 1 \\ 3 & -1 & 2 \end{bmatrix} \quad A^T = \begin{bmatrix} 1 & -1 & 3 \\ 1 & 1 & -1 \\ 2 & 1 & 2 \end{bmatrix}$$

$$A+A^T = \begin{bmatrix} 2 & 0 & 5 \\ 0 & 2 & 0 \\ 5 & 0 & 4 \end{bmatrix} \quad A-A^T = \begin{bmatrix} 0 & 2 & -1 \\ -2 & 0 & 2 \\ 1 & -2 & 0 \end{bmatrix}$$

$$\text{Skew Symmetric} = \frac{1}{2} \begin{bmatrix} 2 & 0 & 5 \\ 0 & 2 & 0 \\ 5 & 0 & 4 \end{bmatrix} - \frac{1}{2} \begin{bmatrix} 0 & 2 & -1 \\ -2 & 0 & 2 \\ 1 & -2 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 1 & 0 & 5/2 \\ 0 & 1 & 0 \\ 5/2 & 0 & 2 \end{bmatrix} + \begin{bmatrix} 0 & 1 & -1/2 \\ -1 & 0 & 1 \\ 1/2 & -1 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 1 & 1 & 2 \\ -1 & 1 & 1 \\ 3 & -1 & 2 \end{bmatrix}$$

7)

$$A = \begin{bmatrix} 3 & a & b \\ -2 & 2 & 4 \\ 7 & 4 & 5 \end{bmatrix} \quad A^T = \begin{bmatrix} 3 & -2 & 7 \\ 0 & 2 & 4 \\ 5 & 4 & 5 \end{bmatrix}$$

Symmetric matrix =  $A^T = A$

$$\therefore a = -2$$

$$b = 7$$

# Theory Problems Of Matrices

**Lei Huang**



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