$$A - A' = \begin{bmatrix} 0 & a & b \\ -a & 0 & c \\ -b & -c & 0 \end{bmatrix} - \begin{bmatrix} 0 & -a & -b \\ a & 0 & -c \\ b & c & 0 \end{bmatrix} = \begin{bmatrix} 0 & 2a & 2b \\ -2a & 0 & 2c \\ -2b & -2c & 0 \end{bmatrix}$$

$$1/2\,(A - A') = 1/2 \begin{bmatrix} 0 & 2a & 2b \\ -2a & 0 & 2c \\ -2b & -2c & 0 \end{bmatrix} = \begin{bmatrix} 0 & a & b \\ -a & 0 & c \\ -b & -c & 0 \end{bmatrix}$$

**10. Express the following matrices as the sum of a symmetric and skew symmetric matrix:**

**(i)** $\begin{bmatrix} 3 & 5 \\ 1 & -1 \end{bmatrix}$ **(ii)** $\begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}$

**(iii)** $\begin{bmatrix} 3 & 3 & -1 \\ -2 & -2 & 1 \\ -4 & -5 & 2 \end{bmatrix}$ **(iv)** $\begin{bmatrix} 1 & 5 \\ -1 & 2 \end{bmatrix}$

**Solution:**

**(i)**

Let $A = \begin{bmatrix} 3 & 5 \\ 1 & -1 \end{bmatrix}$ then, $A' = \begin{bmatrix} 3 & 1 \\ 5 & -1 \end{bmatrix}$

Symmetric matrix = 1/2 (A + A')

$$= \frac{1}{2}\left(\begin{bmatrix} 3 & 5 \\ 1 & -1 \end{bmatrix} + \begin{bmatrix} 3 & 1 \\ 5 & -1 \end{bmatrix}\right)$$

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

And Skew symmetric matrix = 1/2(A – A')

$$= \frac{1}{2}\left(\begin{bmatrix} 3 & 5 \\ 1 & -1 \end{bmatrix} - \begin{bmatrix} 3 & 1 \\ 5 & -1 \end{bmatrix}\right)$$

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