

Matrices

Question

If $A = \begin{bmatrix} 1 & 3 \\ 2 & 2 \\ 3 & 1 \end{bmatrix}$ $B = \begin{bmatrix} -4 & -6 \\ -5 & -5 \\ -6 & -4 \end{bmatrix}$ Then find $A + B$, $B + A$ and $A + 2B$

$$A + B = \begin{bmatrix} 1-4 & 3-6 \\ 2-5 & 2-5 \\ 3-6 & 1-4 \end{bmatrix} = \begin{bmatrix} -3 & -3 \\ -3 & -3 \\ -3 & -3 \end{bmatrix} = -3 \begin{bmatrix} 1 & 1 \\ 1 & 1 \\ 1 & 1 \end{bmatrix}$$

$$B + A = \begin{bmatrix} -4+1 & -6+3 \\ -5+2 & -5+2 \\ -6+3 & -4+1 \end{bmatrix} = \begin{bmatrix} -3 & -3 \\ -3 & -3 \\ -3 & -3 \end{bmatrix} = -3 \begin{bmatrix} 1 & 1 \\ 1 & 1 \\ 1 & 1 \end{bmatrix}$$

$$A + 2B = \begin{bmatrix} 1-8 & 3-12 \\ 2-10 & 2-10 \\ 3-12 & 1-8 \end{bmatrix} = \begin{bmatrix} -7 & -9 \\ -8 & -8 \\ -9 & -7 \end{bmatrix}$$

Engineering Mathematics Matrices Questions And Answers

George Sarton



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