Definition of a Matrix (p. 64):

Examples:

Definition of a Square Matrix (p. 64):

Examples:

Definition of a Equal Matrices (p. 64):

Example: Find the values of $x$ and $y$ for which the following equation is true.

$$
\begin{bmatrix}
  y - 3 \\
  y
\end{bmatrix} =
\begin{bmatrix}
  x \\
  2x
\end{bmatrix}
$$
Definition of Addition of Matrices (p. 65):

Example: Find $A + B$ if

$$A = \begin{bmatrix} 3 & 5 & -7 \\ -1 & 0 & 5 \end{bmatrix} \quad \text{and} \quad B = \begin{bmatrix} -2 & 8 & 6 \\ 5 & -9 & 10 \end{bmatrix}.$$
Example: Find $AB$ if $A = \begin{bmatrix} 0 & 1 & -1 \\ 2 & -1 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & -1 \\ 2 & 1 \\ 3 & -2 \end{bmatrix}$.