

Comparable Matrix:

Two matrices A & B are said to be comparable if,
order of matrix A = order of matrix B

Example: If matrices $A_{3 \times 5}$ & $B_{m \times n}$ are comparable, then $(m, n) \equiv (3, 5)$

Equal Matrix:

Two matrices are said to be equal if,

(i) They are comparable.

(ii) corresponding elements of them are equal.

Let $A = [a_{ij}]_{m \times n}$ and $B = [b_{ij}]_{p \times q}$

Then $A = B$, if $m = p$; $n = q$ & $a_{ij} = b_{ij}$, $\forall i \text{ \& } j$