

If A is a square matrix, and if a matrix B of the same size can be found such that $AB = BA = I$, then A is said to be invertible (or nonsingular) and B is called an inverse of A . If no such matrix B can be found, then A is said to be singular. Remark 1: The relationship $AB = BA = I$ is not changed by interchanging A and B , so if A is invertible and B is an inverse of A , then it is also true that B is invertible, and A is an inverse of B .