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Matric number: 18/sci01/038

- 1). An n x m matrix A is called nonsingular or invertible if there exists an n x n matrix B such that. AB = BA = I. If A does not have an inverse, A is called singular. A matrix B such that AB = BA = I is called an inverse of A.
- 2). A singular matrix if its determinant is zero.

ad - bc = 0b a

1

(1X2 - 1X2) = 0

С d 1 2

A nonsingular matrix if its determinant is not zero

2 1

2

3

2

 $(3 \times 2 - 1 \times 2) = 4$ 

1

2

3 2

(3X2 - 1X2) = 4

2

(8X3 - 2X4) = 16