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SINGULAR MATRICES:

Singular matrix is a square matrix which is invertible. Alternatively, a matrix is singular if and only if it has a determinant of 0.

Singular matrices are the square matrices which have zero determinant. This means that you won't be able to invert such a matrix look more technically it means that the rank of such a matrix is less than its order. Since you have got a zero determinant. Linear transformation represented by singular matrices are not isomorphisms. This is because homomorphisms represented by such matrices are non-invertible.

Examples:

2 x 2 by matrix

3 x 3 matrix

NON-SINGULAR MATRIX

Non-singular matrix is a square one whose determinant is not zero. Thus a non-singular matrix is also as a full matrix.

EXAMPLES

Determinant of (6,5) (5,3)