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Matric/no:-18/SCI01/072

Course:-MAT 204

Department:-computer science

1 Singular matric is a square matrices which have a zero determinant. This means that you won’t be able to invert such a matrix while non-singular matrices is the determinant of a matrix is not equal to zero.

2 A find the inverse of {3 6}

[ 1 2]

Determinant=(3\*2)-(6\*1)=0 this is singular matrix

B The determinant of [6 2]

[5 3] =6(3)-5(2)=18-10 =0 is a non-singular matrix

C 2\*2 matrix [a b] is singular if its determinant ad-bc=0

[c d]

D A=[1 2]

[3 2] is singular matrix because its determinant =(3\*2 -1\*2)=4 which is not zero

E A=[3 12]

[2 8]

The determinant is (3\*80-(12\*2)24-(24)=0