MATH 204 ASSIGNMENT

1. Understanding of singular and non-singular matrices.
2. Give five examples to back the explanation in no1

ANSWERS

* A singular matrix is a matrix that does not have an inverse version while, a non-singular matrix is a matrix that has an inverse of itself.
* Example of singular and non-singular matrices

$\begin{matrix}a&b\\c&d\end{matrix}$ is a singular matrix if ad – bc =0,

 AB =BA = I is a non-singular matrix,

 A square matrix is non-singular iff its

 determinant is not 0,

 a square matrix is singular iff its

 determinant is 0,

 6(3) – 5(2) = 18 – 10 =8 $\ne 0$ (non singular)