NAME: ARONU JOSEPH IZUCHUKWU

MAT ASSIGNMENT

MATRIC NO.: 18/SCI01/020

DEPARTMENT: COMPUTER SCIENCE

1. Linear transformation is the mapping of elements of the domain onto the codomain.
2. A= X=

T(x) = A(x)

T(x) =

1+ 4+ (-8)

+ +

T(x) =

1. Rank of a matrix A is the order of the largest square matrix or sub-matrix of A whose determinant is not equal to zero.

E.g. the rank of A

A =

|A| = 1(1-9) – 2(2-0) + 0

|A| = -8 -4 = -12 ≠0

Hence the rank of A is 3