Department: computer science
Level: 200

1i) A linear transformation is a
function from one vector space to

another that respects the

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underlying (**linear**) structure of each vector space.

ii) The **rank of a matrix** is defined as the maximum number of linearly independent column

of linearly independent column vectors in the **matrix**2)(1 2 8)
(4 7 6)

(9 5 3) =1(21-35) -2(12-54)+8(20-63) = -14-2(-42)+8(-43) =14+84-344 =-274

Therefore the matrix is not singular