9

10 11 16 17 18 23 24 25 Tuesday (2) - A, B ore invertible matrix 9 with same sizes. AA-I-I

Since, we

10 know that -s

AB is multiplicable & invertible.

(AB). (AB)-1 = I

A-1. A.B. (AB)-1 = A-1. I = A-1

B. (AB)-1 = A-1 B-1, B, (AB)-1 = B-1, A-1

 $(AB)^{-1} = B^{-1}A^{-1}$

(AA-1=I) (AT)-1=I4

 $AA^{-1} = I$

take transpose ->

(AA-1) T = (I)T

 $(A^{-1})^{1}$, $A^{T} = I$

(AT)-1, AT= I = R.H.S.

as well, we can prove backwards













