Discussion - July 6

A is mxn matrix

Nul (A) is solutions to $A\vec{x} = \vec{0}$ ($\vec{x} \in IR^n$)

(a) (A) is to ERM where $A\vec{x} = \vec{b}$ is consistent

T: V-W

 $\ker T$ is solutions to $T(\vec{x}) = \vec{O} \quad (\vec{x} \in V)$

in T is BEW where T(x)=B solvable

for T: Rn → Rm , x → Ax

NUIA = KerT

or Nol[T] = ker T Col [T] = im T