Lecture 10 Problems Problem 1

(a): We know the tre count be more pirot. columns/rows than there are nows and columns thus $r \leq m$, $n \leq by$ the securit bit of info and lecture Inotes, $r \leq m$.

(Di Y has elements of M(AT), which has >0 ellenents since by definition there -e must be at least one vectorist he null space,

Problem 2 Left null space