2. (10 points) Let A and B be $n \times n$ matrices. Prove that if either Ker A or Ker B is non-trivial, then Ker AB is also non-trivial.

Since detAB detA detB and it detAx. Then Ax moved the traval

If one of detA or detBic zero that makes detAB to @ zero.

Are detAB adetAdetB

if determinant is 0 then it is non-trivial.

Vaccoura)