**3B**

**5.solution: assume that (e1,e2,e3,e4) is a basis of R4, we define T∈L(R4,R4) that: Te1=Te2=0,Te3=e1,Te4=e2.note that nullT=rangeT=span(e1,e2), hense the nullT=rangeT.**

**6.see the solution**

**7.solution:**