is returned. Brief discussion of common mistakes. olynomials: @ rallinagnony parts; complex conjugation, absolute value @ zeroes of polynomials.
@ Burbanentel + hom of algebra (statement) DIntuition (examples) Le scapi iso morphic (real)
vector spaces R2 C

Of A number LEC is a zero of PEP(C): 8 pl Xt=0 AmplIB \ is a root of p, then p(z)=(z-x/9/3) For dog P=m-0 P has at most m zerros IB P hous Thin (Fundamental thin of algebra I) complex polynomial has a zero. Kert (Fundmental Hom of algebra II) p(3)==(3-)1/(3-201-..(3-)m/ eg. \$131= 33+ 32+32+1 has one real root (\$1=11 and two complex roots ( ) = i & >=-i). The Bactoristron is plate (3-1)(3-i)(3+i) 1

De Linear olgobra is the study of linear transforms I our god is to indenstrad them better. One may of Johng It is by binding special boses and subspaces which play nicely white I will transformation. PERATOR = linear transfer mation TiV W. in invariant subspace is a subspace UCVs.t. IT(1) & eig votation through an axis PyllR is invariat eg. O, V, mill (V), rage (V).

