I. playing with carres in IP II. Affine algebraic geometry (structure of spec A) II. Projective geometry II cohomology thm: Null stellensatz: Maximal ideals of [[x1, ..., xn] = points in A: (=0) (a,, ..., an) EAM max iden MM a = Kernel of ham. ([bx] -> (
Ma-(x,-a,, ..., Kn-an)

(x) A= C[x]/I quotient of [[s], say I=(f,,...,fn), fie [[x] Cori Then Spec A = {marridents} (VI) = locas of zeros tum Correspondence Thm: ideals of A dig ideals of (IX) that contain I maxiteals () maxideals containing I If A isonfinitely generated C-algebra (ring that contains a), then A & C[x]/I Spec A V(I) variety 4 An