ring homo \$: C[x,y] -> C[x,y] /(xy) Such that \$(xy.f(x,4)+p(x)+q(4)) = p(x)+q(4) + <x4> 2 A(N) X" + Σ b(m) y "+(Iain)(xa)n+ 5b(m)(4-B)m+c Trofit M THING. IQ(n)(x-a)n + I bum) y m+(Ia(n) xn+ I6(m). (4-B)m+C () C[x,4]/(xy) = | max ideal = { Idin(xx)"+ Ibin)y" } { Zain | x " + Ib(m)(4-16) m } = (xxx,4> or (x, y-B> = < × 4 > 2) On the other hand, for ([x,4], max ideal = < x-0, y-10> = { (x-x) (4-10) f(x,y) | f ∈ (tx,y]) (xy) = max ideal containing xy = max ideal containing x or y = (x, y-B) or (x-x, y) [] [[x,y] = max confaining xy] ([x,y]/xy=1 max] (x-a,4) or (x,4-B) (-> (x-a,4) or (x,4-B)

