Subject:	( التاريخ: / / Date /	الموضوع:
91) A simple	counting argument shows	P can be atmost 1-R
For any code	6, with dist = dmin the errors in the code. To	he decoder can detet
decode au a	errors in the code. To	nber of emors 't' to
be < dmin =	error, we want the num	Animalian bearing wind &
So our decode	r, takes the recieved ver	tor & clecks if the
of vector has	at all the possible code	vector has an error
case, the	number of errors detected	d/corrected will be <
where of = ym	191 11 to 290/64 61-	est the Latter 20
· Fraction e	cross detected/corrected	< d-1
The state of	rules II - 1	-
samulas F M	úles fo	h
Q) No of Homo	delipie livear conditions in	the coeffecients
of 9 = r+	genous linear conditions in	
Let Sx: 4.	, yiz 3" be the # of to	nbles
fix ie [n]	a particular monomial	X , d' , d' , a
B(x+x; , y,+)	This polymon	nial will have monon
of degree >	r → multiplicity.	at the in the
	"was paracy	

Then the no of homogenous linear eq for each triple (Li, Ji, Jiz) of non negetive integers with constraint: be - 1+3 C3 = Y+2 C3

1) Why should the number of vakuowing be greater than the number of constraints for it to be a non-tero solu.

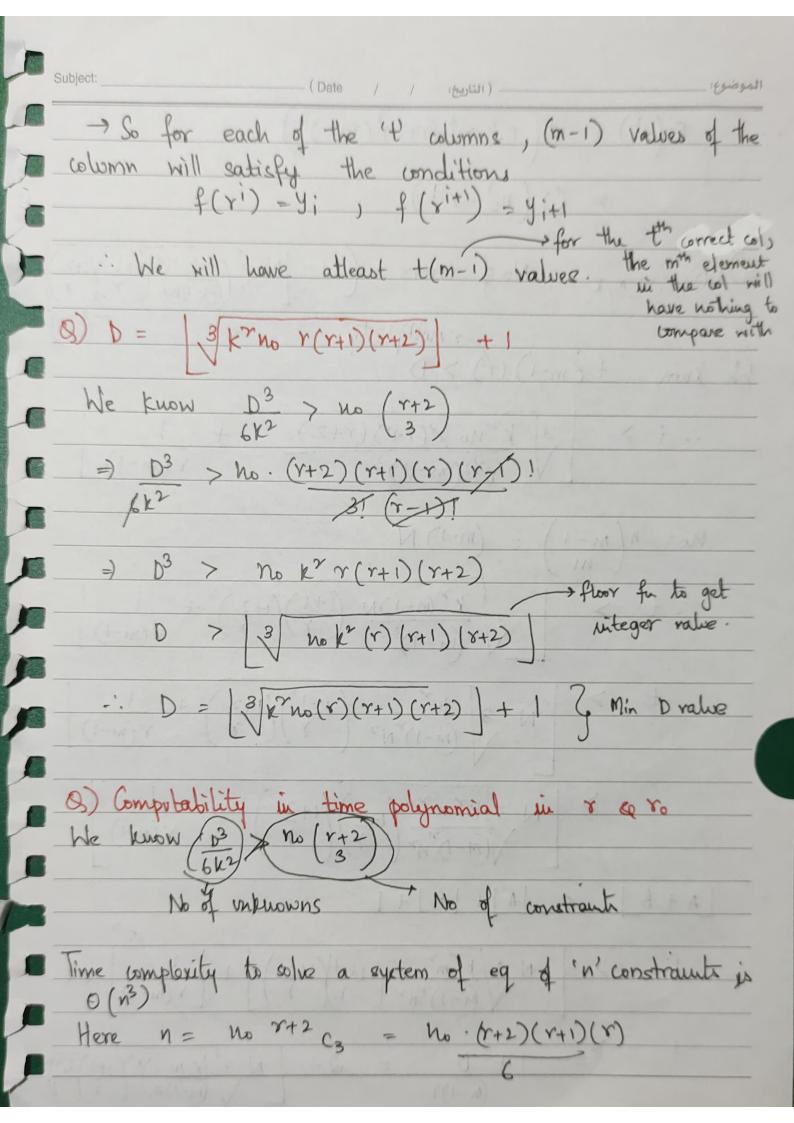
If the number of unknowns > No of equations, then some of the unknowns are free er if we have free unknowns we get infinitely many solutions.

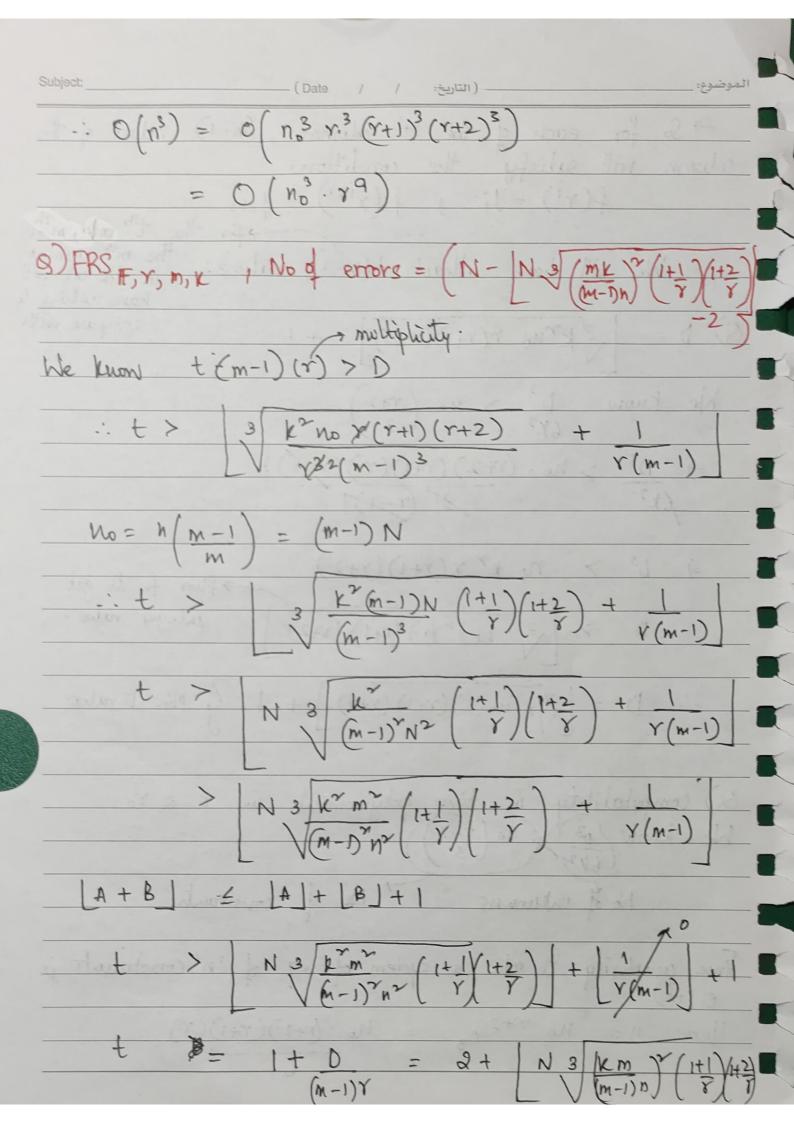
9) for atteast t(m-1) values of i, i e I, both the equalities  $f(\tau) = y$ ; &  $f(\tau) = y$ ; to -> Empty (No match) N columns of the xx vector

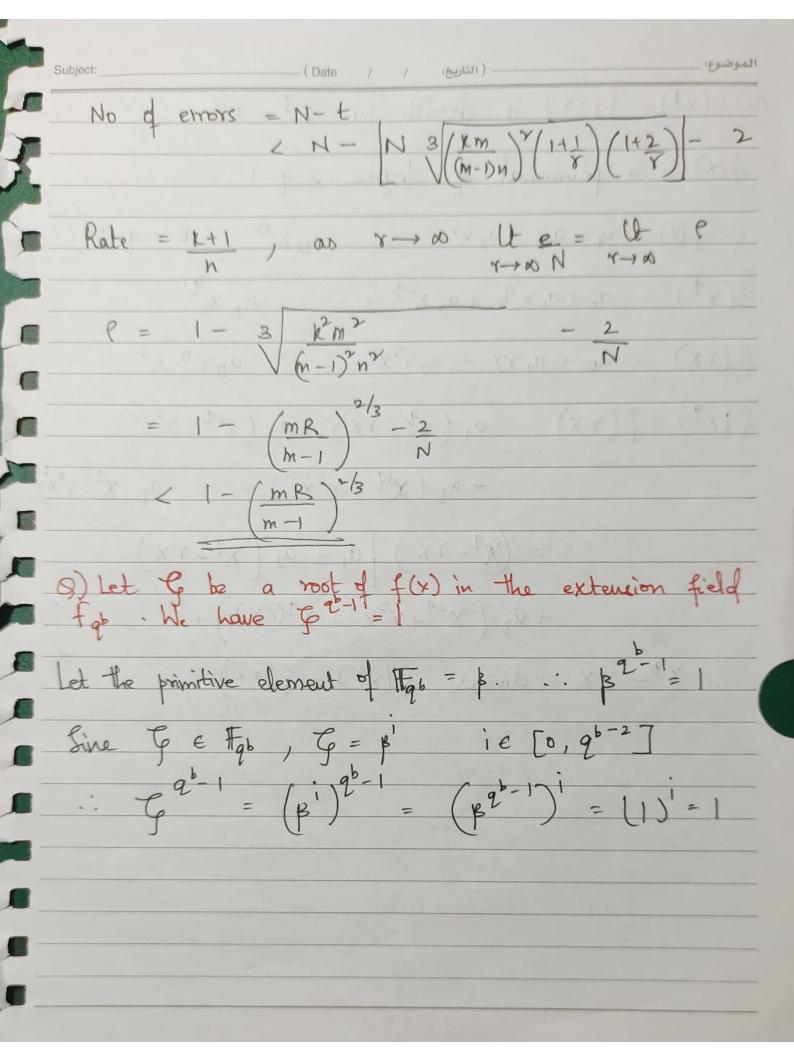
agree with to vector. eI co ... cn for i,j, where j= i+1 Let col i & one of the + columns & column j have an error. Since column ij' has on error, all the values in colj are compted.

of which 't' columns

In cal i, the mth value of the column will be f(r')=y; and in cal j, the 1st value of the column should be f(r')=y. but since col j has an error f(riti) + yit1







Subject:	( Date /	/ التاريخ، /	لموضوع:
8) f(x2) - f(r	x) is divisible	e by x2-8	Kora b off
f(x) is a poli			0 10 11
		9 + ap	
		$a_0$	
	() = 9, (x2	- YX) + 92 ( X2	2-82x2)
		$(x^{3}(2-x^{3})^{3}) +$	
play counts		$) \left[ a_1 + a_2 \left( \chi^2 \right) \right]$	
.: X2- YX		(x2) - f(xx)	
	(0) 01	4 2 4 4	3 Pi arit
1 4 (1)	(1-184)		