	Sem	иши 13			
G-linear code	2 ,				
v= 6 ∠=> H. [vi	J _E = 0				
B= Ju & = Zz	equivaler	otalos ti	ne:		
(+) x, x'∈Z'x : x~;	x' <=> X-x! e G				
x = x+6 = 5x+y	=x+x1				
x~x' <=> H.[x-x]					
For x= 2/2 the	mecter H.	xJ is the	syndron Herosu	to a s	× est lastición
colled the coset					
ex 13.2 Using t	the posity	chick ma	trùx H.		101)
		- 0 1-			1 1 1) 2 1 1 1
and the syndre	sues and co	Sex rivor	rs	(05/1	
sydrame 000	000	011	100 10	110	1111
	000	011	100 10	110	1111
syndrame 000 ceses leader 000000 decade the follo	000 000	0000000	100000000000000000000000000000000000000	1/10 01/10 000/1	1// 1 00 000 00 000
Syndranue 000 Ceset leader 000000 clecade the follo	001 000 0000 0000 wing work	0000000	100000000000000000000000000000000000000	1/10 01/10 000/1	1// 1 00 000 00 000
syndrame 000 coset leader 000000 coset leader blue follo 010101 To decode - steps	001 000 001000 0100 wing work	0110 0000000 0000000000000000000000000	100 1000, 1000, 10000, 10000, 100000, 100000, 100000, 100000, 100000, 10000, 10000, 10000, 10000, 10000, 10000, 10000, 10000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 10000000, 1000000, 1000000, 1000000, 1000000, 1000000, 10000000, 10000000, 10000000, 10000000, 100000000		1// 1 00 000 00 000
Syndranue 000 Ceset leader 000000 clecade the follo	rector by the section on on one	0110 also 3000 to get the	100 1000, 1000, 10000, 10000, 100000, 100000, 100000, 100000, 100000, 10000, 10000, 10000, 10000, 10000, 10000, 10000, 10000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 100000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 1000000, 10000000, 1000000, 1000000, 1000000, 1000000, 1000000, 10000000, 10000000, 10000000, 10000000, 100000000		1// 1 00 000 00 000
Syndranie 000 Ceses leader 000000 Ceses leader bella On 0101 To decode - steps 1. multiply the 1	ONO NOO	01100000000000000000000000000000000000	100 1000, 000, 000, 000, 000, 000, 000,		1// 1 00 000 00 000

1. 101-(101110) H [No] = (100 101). (6) (=) CL = 000000 =) connated vector= 101110 =) (message = 110 ~2=(011000) =) CL= 0000010 =) corrected nector= 011000 0 0 0 =) (message = 010 N3= (001011) $H - \Sigma N_3 J = \begin{pmatrix} 100 & 101 \\ 010 & 111 \end{pmatrix} \cdot \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix} = \begin{pmatrix} 1 \\ 0 \end{pmatrix} =) CL = 000 110$ =) corrected vector=001101 =) message = 101 N4= (11111) -) CL = 000/1/0 100111= reces lastoures (= =) message = 001 N5= (110011) H- [NOO] = [203-H 010 111 =) CL= 01 0000 -) corrected vector=100011 =) message = OM NG = (010101) =) Cr=0000v0 11/10/10=read bated (=010/11 =) message = 111

ex 13.5 Construct a table of coset leaders and syndromes for the (4,4) code with H=(100 110) (010 101) 100 101 ONO syndrame 000 At leader 10000000 | Oonwerd ...

At $U_{n,n}(\mathcal{A}), v = \langle v_1 \rangle \in U_n(\mathcal{A}_a)$, A. $v = \mathcal{A}_{i=1}$ Columns of A ex 13. & Construct a table of coset leaders and syndrones for the (4,3)-code generated by P=1+x2+x3+x4 ∈ Lacx3 00 10 000// DO 000/000 DO N N 00 10 000000 0 110 + Decode: 1110110 => C2-0000100 =) Corrected vector = 111 0010 => message = 010

