Exercise 1:

W= J: 8(1) = X2+ X5+V

1) dimension = A= 4

2) 3(x): comment virifier c'est un polynome géneratire.

dedois vérigier que reste=0

ED R = 0. Interpolation deligatorie

Sul : Janéte un code deligatorie

Cyclique de longueur m=7

h(x) = ? $h(x) = X^4 + X^3 + X^2 + 1$ h(x) = ? $h(x) = X^4 + X^3 + X^2 + 1$.

X JAN KING XXXX

$$H = \begin{bmatrix} \Lambda \Lambda \Lambda \Lambda \Lambda \Lambda & 0 & 0 \\ 0 & \Lambda \Lambda \Lambda & 0 & 0 \\ 0 & \Lambda \Lambda \Lambda & 0 & 0 \end{bmatrix}$$

 $= x_{0} + x_{2} + x_{1} + x_{2} + x_{2} + x_{3} + x_{4} + x_{4}$ $= x_{0} + x_{2} + x_{3} + x_{1} + x_{3} + x_{4} + x_{4}$ $= (x_{3} + x_{4}) \cdot (x_{3} + x_{5} + x_{7})$ $= (x_{3} + x_{4}) \cdot (x_{3} + x_{5} + x_{7})$ $= (x_{3} + x_{4}) \cdot (x_{3} + x_{5} + x_{7})$ $= (x_{3} + x_{4}) \cdot (x_{3} + x_{5} + x_{7})$ $= (x_{3} + x_{4}) \cdot (x_{3} + x_{5} + x_{7})$

$$K|x|=X_{5}+X+1.$$

$$X_{4}+X_{2}+X_{5}+X_{5}+1$$

$$X_{1}+X_{2}+X_{5}+X_{5}+1$$

$$X_{1}+X_{2}+X_{5}+X_{5}+1$$

$$X_{1}+X_{2}+X_{5}+X_{5}+1$$

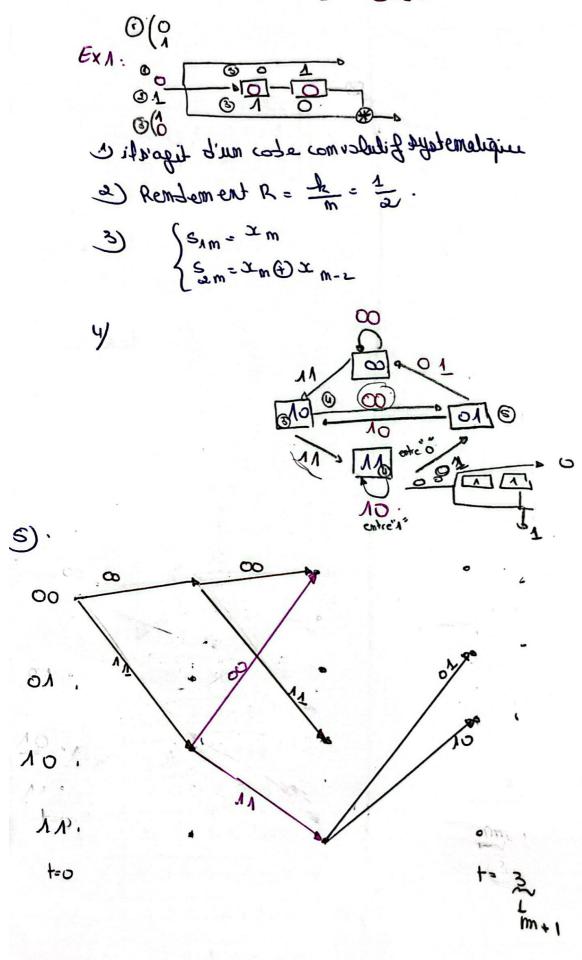
$$X_{1}+X_{2}+X_{5}+1$$

$$X_{1}+X_{2}+X_{5}+1$$

$$X_{1}+X_{2}+X_{3}+1$$

R(X) 40 to mag ecconé

maganife: V(X)+R(X) X4+ X3+X2+ X+Xx+ X+X CD X4+ X3+ X.; conje Décode 11 X C(x)=m(x).q(x) 11(x)= (x) + x + x + x = (x) 11 1 - x - x - x - (x)// 10 4 OLISALAO

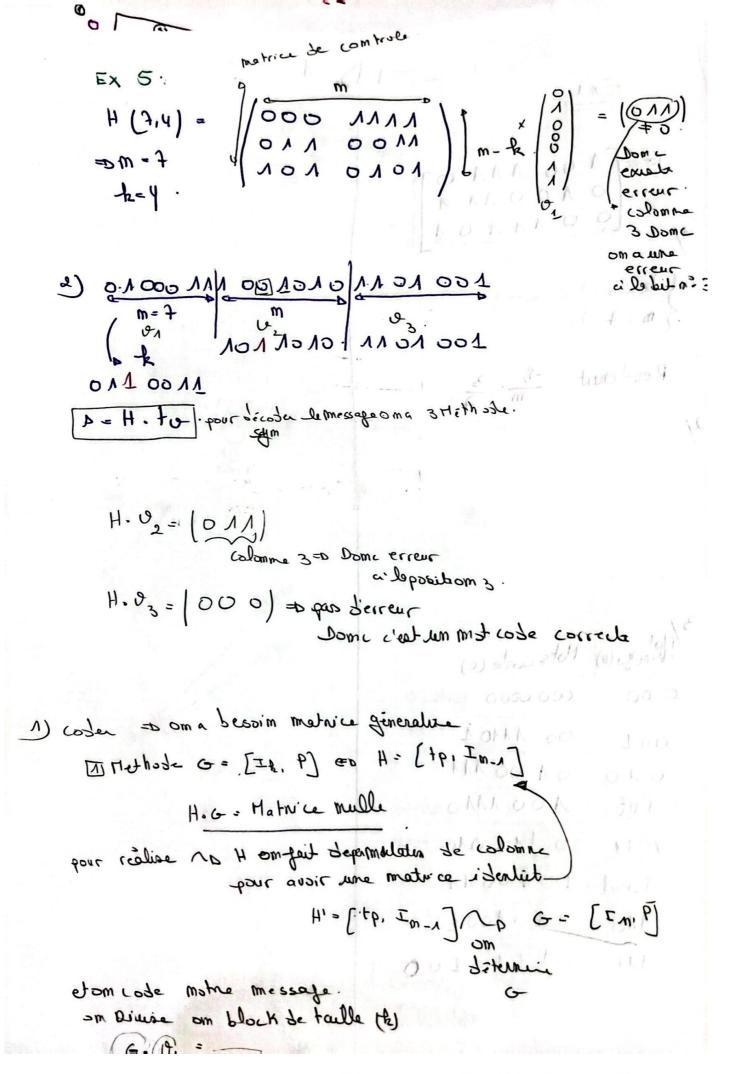


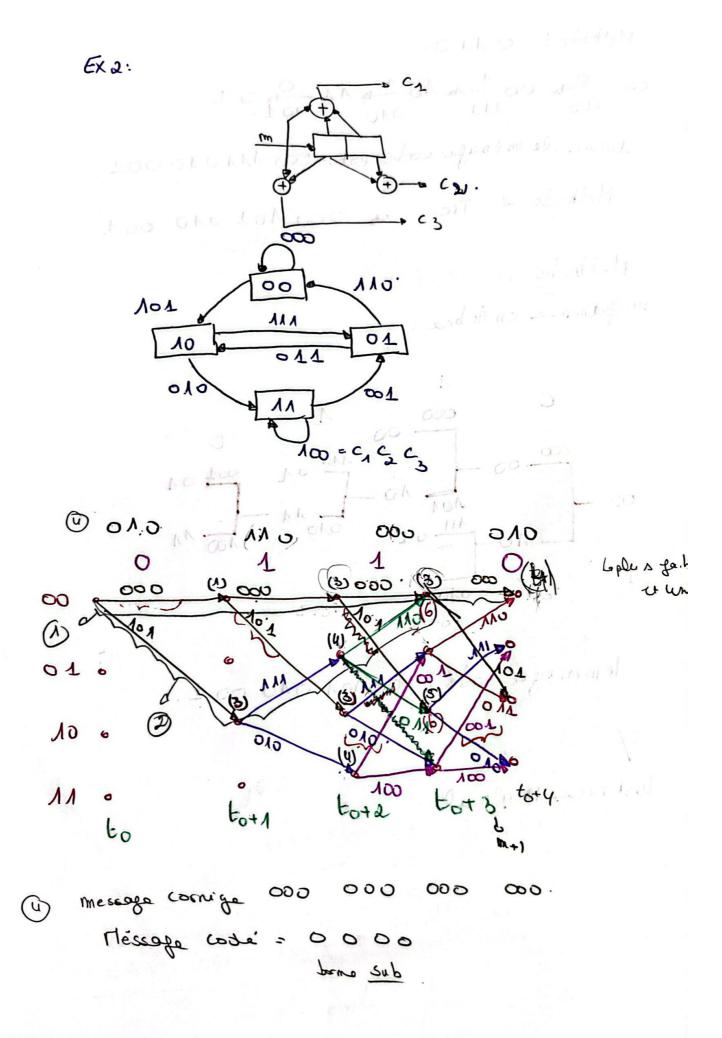
Scanned with CamScanner

Rendemnt
$$\frac{4}{m}$$
 $\frac{3}{7}$.

y

3 Hot (1)	Hots code (c)
000	00- 2000 GOOD GOOD
001	00 1110 1 " =4
010	P= " MA 00 A0
100	YOU WY OOY
611	0 111 0/01/=4
101	1 01 00 MI = 4
AMO	11000011=4
٨٨٨	111010014





Hobbade 1: 0 MO.

Donc le merage code est: 000 MMOND 001.

Hethode 2: Tre - 000 101 010 001

Héthode 3:

diagnem na en Arbre:

lemenage codé: 000 101 010 001.