f(x, x2, x3, x4) = X, + X2. a) f:12 4 > R, fà se determine dire ensir nes dim R Kert, pracum si matroida functionala. û repear B = h(1,0,0,0), (1,1,0,0), (1,1,0), (1,1,1,1)} ber f It h (x1, x2, x3, x4) \in 12 (x1, x2, x3, x4)= f(x1, x2, x2, x4) =0 €=> x1+x2 = 0 A = (10100) trang A = 1 < Mr nec 4 => 4-1-3 ne determin. Misteu compatibil St, = nec pp. 22, 23, Dea mec sec. => 2, = -22 => (21,22,23,24)= x3 € R ZA E (R) = (- x, ) x2, x3, x4) => Her f = (-x2, x2, x3, x3/2) = \( \left( - \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{0}, \fra

= 
$$Span_R$$
  $\int_{N_3} N_1 = (-1,1,0,0)$ ,  $N_2 = (0,0,1,0)$ ,  $N_3 = (0,0,0,1)$   $\int_{N_3} N_3 = (0,0,1,0,1)$   $\int_{N_3} N_3 = (0,0,0,1)$   $\int_{N_3} N_3 = (0$ 

12/x2,x3, x4 ERZ

$$\begin{cases} \frac{1}{2}(x) = 4y(x) + 3 \neq (x) \\ \frac{1}{2}(x) = 4y(x) + 3 \neq (x) \end{cases}$$

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$$\begin{cases} \frac{1}{2}(x) = 4y(x) + 4y($$

$$= \frac{3-5}{2} = -1. \quad m_{q_{12}} = 1.$$

Ez substratu propriu

Pentru 1, = 4 cautain N, = (a, b) din  $(A - \lambda, I_2) V_1 = (0,0)$ (=> -49+6=0"=> b=49. =)  $N_1 = (a, b) = (a, 4a) = a (1, 4)$ 

=0

(C.M) = A C.M | C C M = C.M (C.M) = A C.M | C C M = C.M  $(M_1) = (M_1) = (M_1) | M_1 | C C M = C.M$   $(M_2) = (M_1) | M_2 | M_2$ 

lu u2 = - > € C2. Revenim la schimbarea de variale Ca-W = C. u => (Y)=/1-//2 (2) (=) \( \frac{7(x) - 9e4x}{2(xe) = 9e4x} - e-\frac{7}{2} \)
\( 2(xe) = 9e4x - e-\frac{7}{2} \) pt solutia generala-  $P(xe) = C_1 \left(\frac{e^4x}{4e^{4x}}\right) + C_2 \left(\frac{e^{-2x}}{e^{-2x}}\right)$ (1)  $(2 \in \mathbb{R})$   $f(x) = \begin{pmatrix} f(x) \\ f(x) \end{pmatrix}$  $(Y_1(x) = \begin{pmatrix} e^{4x} \\ 4e^{4x} \end{pmatrix} & Y_2(x) = \begin{pmatrix} -e^{-x} \\ e^{-x} \end{pmatrix}$ ) sunt soluti particulare