3ag. 1 3nan, re IR [x] e M ornogno onepayure cosupane na помному и запожение на помном с гисло.

V S IR [x] => HDY V go e ITT e HP, YEV, YAGIR

14, 6 MV.

* -- A-1 = 2 . Den ezz 2 f+ g & V = = (2 f+ g)(1) + (2 f+ g)(-1) = 0

treva f, g & V, 26 12:

 $(\chi + \chi)(1) + (\chi + \chi)(-1) = //get. cop na nomnom$

Mgedo. Janom. ma nos. a rueco $= (\lambda f)(4) + g(4) + (\lambda f)(-1) + g(-4) =$

= 2. f(1) + s(1) + 2. f(-1) + g(-1) =

 $= \lambda. \left(f(1) + f(-1) \right) + \left(g(1) + g(-1) \right) = \lambda.0 + 0 = 0$

= > x + 2 6 V, 4 + , 2 6 V, trell => V = 1R [x] => V e In

(le 117 mg le conspayment una nommorm 4 · ma not- c 22000)

$$\Delta_2 = \left| \begin{array}{c} \rho^{-1} \\ \rho^{n} \end{array} \right| = \left| \begin{array}{c} \rho^2 + \rho + 1 \end{array} \right|$$

1 1- 1- 1-

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1 30 0 24 24 24 24 2 2-00 Cil.

Hera NZ3. Torala:

$$= \rho \cdot \Delta_{n-1} + (-n) \cdot (p+n) \cdot (-n) \cdot (-n) \cdot (p+n) \cdot (p-n-1) = 0$$

$$0 \quad p+n \quad p-n \quad 0$$

3ay.3 A-1=?

(3

- \(\text{Es} \) \(\lambda \ 4-11-0011-40 5

Tay of A.L. 2

(4

$$3a_{4}.4$$
 $\times . \begin{pmatrix} 5 & 3 & 2 \\ 7 & 4 & 3 \\ 3 & 1 & 1 \end{pmatrix} = \begin{pmatrix} 1 & -1 & 0 \\ 14 & 7 & 6 \end{pmatrix}$
 $= 1$

framman A-1:

$$= \left(\begin{pmatrix} -1 & 1 & 0 & | & 1 & 0 & -2 \\ -1 & 0 & 0 & | & -1 & 1 & -1 \\ 4 & 0 & 1 & | & -1 & 0 & 3 \end{pmatrix} \right) = \left(\begin{pmatrix} 0 & 1 & 0 & | & 2 & -1 & -1 \\ 1 & 0 & 0 & | & 1 & -1 & 1 \\ 0 & 0 & 1 & | & -5 & 4 & -1 \end{pmatrix} \right)$$

$$X = \begin{pmatrix} 1 & -1 & 0 \\ 1 & 4 & 7 & 6 \end{pmatrix} \cdot \begin{pmatrix} 1 & -1 & 1 \\ 2 & -1 & -1 \\ -5 & 4 & -1 \end{pmatrix} = \begin{pmatrix} 1-2 & 0 & 2 \\ 28-30 & 3 & 1 \end{pmatrix} = \begin{pmatrix} -1 & 0 & 2 \\ -2 & 3 & 1 \end{pmatrix}$$

304. E (M, x2, x3) = (x1+x2+2x3, 2x1-x2+x3, -2x1+x2-x3). Dougeur, re le 10: () = (+) = (+) = (+) (x1, x2, x5), (31, 30, 43) & 123, 26 12 (xx+3x+, x2+31, x3+43) = ((xx+3x) + (x2+32) + 2(x5+33)) 2(74+31) - (72+32) + (73+33), -2 (m+50) + (x2+52) - (x3+53)) = $= \left((x_1 + x_2 + 2x_3) + (y_1 + y_2 + 2y_3), \right.$ (2x1-x2+x5)+(231-32+55), (-2x1+x2-x3)+(-2/1+/2-/3))= 1 + (1) 1 :- 2 = (x1+x2+2x5, 2x1-x2+x3, -2x1+x2-x3)+ 17-1-12 (5x+32+253) 25x-32+33, -25x+32-33) = = & (x1, x2, x3) + & (x1, 22, 23) (3) (2) (2x1, 2x2) = (2x1+2x2+2(2x3), 2(2x1)-2x2+2x3, -5 (xm) + xx2 - xx3) = $=\left(\lambda\left(x_1+x_2+\lambda x_3\right),\;\lambda\left(2x_1-x_2+\lambda_5\right),\;\lambda\left(-2x_1+x_2-\lambda_5\right)\right)=$ = 7 (x1+x2+2x5, 2x1-x2+x5,-2x1+x2-x3) = 7. P(x1, x2, x3) and a finitely of the forest.

e hom IR3

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entropy of the many of the property and a continue

$$E_{1} = (1,0,0), e_{2}(0,1,0), e_{3} = (0,0,1)$$

$$M_{e}^{e}(R) = \begin{pmatrix} 1 & e(e_{1}) & e(e_{2}) \\ e(e_{1}) & e(e_{1}) & e(e_{2}) \end{pmatrix}$$

$$e(e_{1}) = e(0,1,0) = (1,-1,1)$$

$$e(e_{3}) = e(0,0,1) = (2,1,-1)$$

$$= = M_{e}^{e}(R) = \begin{pmatrix} 1 & 1 & 2 \\ 2 & -1 & 1 \\ -2 & 1 & -1 \end{pmatrix}$$

$$= M_{e}^{e}(R) = \begin{pmatrix} 1 & 1 & 2 \\ 2 & -1 & 1 \\ -2 & 1 & -1 \end{pmatrix}$$

$$= M_{e}^{e}(R) = \begin{pmatrix} 1 & 1 & 2 \\ 2 & -1 & 1 \\ -2 & 1 & -1 \end{pmatrix}$$

$$= M_{e}^{e}(R) = \begin{pmatrix} 1 & 1 & 2 \\ 2 & -1 & 1 \\ -2 & 1 & -1 \end{pmatrix}$$

$$= M_{e}^{e}(R) = \begin{pmatrix} 1 & 1 & 2 \\ 2 & -1 & 1 \\ -2 & 1 & -1 \end{pmatrix}$$

$$= M_{e}^{e}(R) = \begin{pmatrix} 1 & 1 & 2 \\ 0 & -2 & -3 \\ 0 & 0 \end{pmatrix} \sim \begin{pmatrix} 1 & 1 & 2 \\ 0 & 1 & 1 \end{pmatrix} \sim \begin{pmatrix} 1 & 1 & 2 \\ 0 & 1 & 1 \end{pmatrix} \sim \begin{pmatrix} 1 & 1 & 2 \\ 0 & 1 & 1 \end{pmatrix} \sim \begin{pmatrix} 1 & 1 & 2 \\ 0 & 1 & 1 \end{pmatrix} \sim \begin{pmatrix} 1 & 1 & 1 \\ 0 & 1 & 1 \end{pmatrix} \sim \begin{pmatrix} 1 & -1 & 1 \\ 0 & 1 & -1 \end{pmatrix} \sim \begin{pmatrix} 1$$

 $(M_{e}^{e}(4))^{T} = \frac{1}{2} \begin{pmatrix} 1 & 2 & -2 \\ 0 & -1 & 1 \end{pmatrix} \sim \begin{pmatrix} 0 & 3 & -3 \\ 1 & -1 & 1 \end{pmatrix} \sim \begin{pmatrix} 1 & -1 & 1 \\ 0 & 3 & -3 \end{pmatrix} \sim \begin{pmatrix} 1 & -1 & 1 \\ 0 & 1 & -1 \end{pmatrix} \sim \begin{pmatrix} 1 & -1 & 1 \\ 0 & 3 & -3 \end{pmatrix} \sim \begin{pmatrix} 1 &$

Ver $\ell \subseteq \text{Im} \ell 1$ $(1,0,0) + (0,1,-1) = (1,1,-1) = > \forall \lambda \in \mathbb{R}, \ \lambda(1,0,0) + \lambda(0,1,-1) = \lambda(1,1,-1)$ $(1,0,0) + (0,1,-1) = (1,1,-1) = > \forall \lambda \in \mathbb{R}, \ \lambda(1,0,0) + \lambda(0,1,-1) = \lambda(1,1,-1) = \lambda(1,1,-1)$ $\text{the larm } \ell \text{-pn or } \text{ fer } \ell = \ell(1,1,-1) \text{ on } \ell \text{ for } \ell \text{ for } \ell = \ell(1,1,-1) = \lambda(1,1,-1) = \lambda(1,1,$

$$M_{e}^{e}(q^{2}) = \begin{pmatrix} 1 & 1 & 2 \\ 2-1 & 1 \\ -2 & 1-1 \end{pmatrix} \cdot \begin{pmatrix} 1 & 1 & 2 \\ 2 & -1 & 1 \\ -2 & 1-1 \end{pmatrix} = \begin{pmatrix} -1 & 2 & 1 \\ -2 & 4 & 2 \\ 2 & -4 & -2 \end{pmatrix} \sim \begin{pmatrix} -1 & 2 & 1 \\ -2 & 1 & 1 \end{pmatrix}$$