1. So se orate co
$$\frac{R[x]}{(x^2+1)} = RxR$$
, $\frac{Z[x]}{(x^2+1)} \neq ZxZ$.

$$\chi^{2} = (\chi - 1)(\chi + 1)$$

$$IA = ((x+x)(x+x)) = (x_{5}-1)$$

$$\frac{(x_1)}{(x_2)} = \frac{2}{2} = \frac{2}{2} \times \frac{2}{2} = \frac{2}{2} \times \frac{2}{2} \times \frac{2}{2} = \frac{2}{2} \times \frac{2}{2$$

$$\frac{2\pi q y}{y}$$

$$\frac{2\pi$$

[13]
$$= \sqrt{100} = \sqrt{100} = \sqrt{100} = \sqrt{100} = \sqrt{100}$$
 is all $\sqrt{100} = \sqrt{100} = \sqrt{100$

Côte Demente re in IXI Cr

rg = u orzista?

 $C^{*}\mathcal{L}^{(s_{0})} = \mathcal{L}^{(s_{0}, s_{0})} \qquad X \times X$ (6,2), (0,1), (1,0), (1,1) (Lesso)

ismuto ... = Xelto sit

$$(a+Dix)^2 = D^2 + a^2 + 2Dix = a+Dix$$

$$\begin{cases} 3a^{2} + a^{2} = a \\ 3a^{2} + a^{2} = a \end{cases} = 3a \cdot (3a - 1) = 0$$

$$(a_2 \Omega)^2 = (1,1) \in (a^2 \Omega^2) = (1,1)$$

 $a_2 \Omega \in \{1,-1\}$

$$\frac{1}{2^{2}} = \frac{1}{2^{2}} =$$

$$\begin{vmatrix} \hat{c} & \hat{A} & \hat{x} & \hat{A} + \hat{x} \\ \hat{c} & \hat{c} & \hat{c} & \hat{c} \\ \hat{c} & \hat{c} & \hat{c} \\ \hat{c} & \hat{c} & \hat{c} & \hat{c} \\ \end{pmatrix}$$

stre un estramelle 1 set as itataites. (1+5x) $\mathbb{Z}_{2}[X]$ comp, mu este ~ Z2×Z2 Zz = 20, 73 = { a+ Dix 1 a, De = Z2 } = 5 ô, î, x, x+x } $\chi^2 = \chi^2 = \chi^2 + \overline{\Lambda} + \overline{\Lambda}$ $7+x^2 = 7+x^2 = 0$ 2 = 7+X (22 =0)
R 3e +0 To Z2xZ2 ec. 22 =0 ore dont a ralific: (0,0) $(\alpha, \beta)^2 = (\alpha^2, \beta^2) = (6, 6)$ $\alpha = \beta = 0$ In Recuptio u2 =0 or 2 saluti : 5, 7+X

In Z2 x Z2:

a solutio (1,1) The R: itular Endo git-smalloal 3 K={a+2u/3/a, 2u € 03 A incl la granded 4. (1) (2) - morfimele de corpori 7: K-1K 1 E K x = a+ lus 7 = c+d/3 0 36,2, R,D ₹-4 = (5-5) + (2-9) 13 EK X ≥ EV(2) + (bol E +20) = F x 0 = x = a+21/3 = k 9-= EVIR (= 0 = EVIC+D

$$\mathcal{Z}^{-1} = \frac{1}{\alpha + 2 \sqrt{3}} = \frac{\alpha - 2 \sqrt{3}}{(\alpha - 2 \sqrt{3})(\alpha + 2 \sqrt{3})}$$

$$= \frac{\alpha^2 - 3N^2}{\alpha^2 - 3N^2} = \frac{\alpha^2 - 3N^2}{\alpha^2 - 3N^2} \sqrt{3}$$

De a 12 E 18, 8 3

Deservement prim Deserted cå 13 E Q.

$$3 = \frac{3^{3}}{3^{2}} = 3^{3} = 3^{3} = 3^{3} = 3^{3} = 3^{3}$$

$$3x_5 = y_5$$

$$\frac{1}{2} \frac{1}{2} \frac{1$$

$$3(a+3u\sqrt{3}) = 3(a) + 3(3u\sqrt{3})$$

$$2(a) + 3(3u) + 3(3u) + 3(3u) = a + 3(3u)^{3}$$

$$3(3) + 3(3u) + 3(3u) + 3(3u) = (3(3u))^{3}$$

$$= 3(3u) + 3(3u) + 3(3u) = (3(3u))^{3}$$

$$= 3(3u) + 3(3u) + (3u) +$$

\$((a+36/3). (c+d√3))= \$(a+26/3). \$(c+d√3) (a-hv3)· (c-dv3) \$((oct 3) bd)+(od+) be) 1/3) (act 3 hd) - (ad+ he) 13 EV (sel + be) -1 bel (5+ se)