Field of Sec 16 1010 X4 t X+1 = 0 (1111) 000 let d be the solution let x4+x+1=0 0+0+1 to 1+1+1+0 L4=24 2000 ax3+ bx7+ cx+d 0001 (a,b,u,d) Χ 000 0100 1000 $\chi^{4} = \chi^{+}$ $\lambda^{4} = \lambda^{+}$ 0011 $X_2 = x_4 x = (x+1) \cdot x = x_5 + x$ $y_2 = y_4 \cdot y = (y+1) \cdot y = y_2 + y = (x+1) \cdot y = y_3 + y_5 = (y+1) \cdot y = y_5 + y_5 = y_$ 0110 x, = X, X = (x, x)x = x+x, y, y = (y, y) = y, + 3, = 1100 x ?= x6 x = (x3 tx2) x = x4 tx2 = x1 + x +1 (cancel 262 = 24 +23 = 23 +24 10 11 $x^{p} = x^{7} \cdot x = (x^{2} + x + 1) \cdot x = x^{4} + x^{2} + x = x + 1 + x^{2} + x = x^{2} + 1$ 0/0/ $x^{3} = x^{8} \cdot x = (x^{2} + 1) \cdot x = x^{3} + x$ 1010 $x^{0} = x^{0} \cdot x = (x^{3} + x) x = x^{4} + x^{2} = x + 1 + x^{2}$ 0111 $x'' = x^{(0)} x = (x + x^2) x = x^2 + x^2 + x$ 1110 $\chi^{12} = \chi^{11} \cdot \chi = (\chi^{2} + \chi^{2} + \chi) \cdot \chi = \chi^{4} + \chi^{2} + \chi^{2} = \chi^{4} + \chi^{2} + \chi^{4}$ 1111 1101 $x^{14} = x^{13} \cdot x = (x^3 + x^2 + 1) \times = x^4 + x^3 + x = x^3 + x + x + 1 = x^2 + 1$ 100 $X^{/5} = x^{14} \cdot x = (x^{2}t| 7x = (x^{4}+4) = x+x+1 = 1$ 1000 $(1101) \times (010) = \times^{18}$ $\frac{|o|_0}{|o|_0} = \frac{x^7}{x^6} = x = 000$ $x^{13} \cdot x^{5} = x^{15} \cdot x^{5}$ = x3

 $= (lo \infty)$

