## KUCNULLUHA PONUS BAPHAHT F Maranya S. Ombernow K zagarawi

N	Ombem
1	{ X = 207 + 105 K Y = -270 - 137 K , K∈ ₹
2	[11, 5, 1, 1, 5, 22]
3	$X \equiv 96960 \mod 234600$
4	C = 11 mod 49
5	$P(x) = x^4 + 3x^3 - 5x^2 - 3x + 1$
G	$X_1 = -2$ $j$ $X_2 = 3$ $j$ $X_3 = -\frac{1}{2}$ $j$ $X_4 = \frac{3}{2}$
7	$X = 43_6 = 27$
8	27 mod 75
9	[2,1,2,4,4]
10	3x2+3x+2

Sugarve 1 2003 - 1995 - 199 - 171

1) Expert 
$$y' - y = > 3603x + 1995y' - 171$$

2) HOS ( $803 + 1995 + 60$ 
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3agarwe 3 
$$x = 10 \mod 25$$
;  $x = 0 \mod 24$ ;  $x = 9 \mod 17$ ;  $x = 17 \mod 23$   
1)  $ell = 25 \cdot 24 \cdot 17 \cdot 23 = 234600$   
 $ell_1 = 9384$   $ell_3 = 13600$   
 $ell_4 = 9775$   $ell_4 = 10200$   
2)  $ell_4 = 10200$ 

2) 
$$9384x_1 - 35y = 1$$
  
 $9384x_1 + 35y' = 1$   
 $x_1 = -11$ 

$$9775x_2 - 24y = 1$$
  
 $9775x_2 + 24y' = 1$   
 $x_2 = 7$ 

13800 X3 - 174 = 1	1
13800 x3 + 174 =	1
$73800 \times 3 + 17y' = 4$ $X_3 = 4$	
10200 x4 - 234 =	1

10200 X4 - 234 =	1
10200 x4 - 23y =	- 1
10200 14 4 239 2	
$X_4 = -2$	

3) 
$$X = (9384.(-11) \cdot 10 + 9775 \cdot 4 \cdot 0 + 13800 \cdot 4 \cdot 9 + 10200 \cdot (-2) \cdot 15) \mod 234600$$
  
 $X = (-1032240 + 869400 - 306000) \mod 234600$   
 $X = -841440 \mod 234600$   
 $-841440 + 234600 \cdot 4 = 96960 \Rightarrow X = 96960 \mod 234600$   
 $Om Bem: X = 96960 \mod 234600$ 

Проверка:

96960: 25 = 3878 (OCF. 10), T.C. 96960 = 10 mod 25 96960: 24 = 4040 (oct. 0), 7.e. 96960 = 0 mod 24 96960: 17 = 5703 (oct. 9), 7.e. 96960 = 9 mod 17 96960: 23 = 4215 (OCT. 15), T.P. 96960 = 15 mod 23

Baganue 4 C= 42555 mod 49

1) k=25 55 => C = 4 k mod 49

2)  $\Psi(49) = 42 \Rightarrow K = 25^{55} = 42.0 + 6 \Rightarrow 6 = 25^{55} \mod 42$ 

3)  $\varphi(42) = \varphi(7) \varphi(3) \varphi(2) = 12 = 25^{12.4+7} \mod 42 = 25^7 \mod 42$ 

ail	C	C2	c. a a	C= C2aai mod K
1	1	1	25	25
1	25	625	15625	1
1	1	1	25	25

4) 
$$C = 4 \mod 49$$
  
 $m = 25 = 11001_2$   
 $C = 11 \mod 49$ 

ai	C	C2	Caai	C= C2 a a mod K
1	1	1	4	4
1	4	16	64	15
0	15	225	225	29
0	29	841	341	8
1	8	64	256	11

Ombem: C = 11 mod 49

Taganue 5 
$$P(-3) = -35$$
,  $P(-2) = -21$ ;  $P(-1) = -3$ ;  $P(n) = -3$ ;  $P(n) = -15$   
 $P(x) = \frac{(x+2)(x+1)(x-1)(x-2)}{(-1)(-1)(-1)(-1)}(-2)}{(-255)} + \frac{(x+3)(x+1)(x-1)(x-2)}{4(-1)(-3)(-4)}(-24) + \frac{(x+3)(x+2)(x-1)(x-2)}{2 \cdot 3 \cdot (-2)(-3)}(-3) + \frac{(x+3)(x+2)(x+1)(x-1)}{4(-1)(-3)(-4)}$   $15 = -\frac{7}{9}(x^{\frac{1}{9}}5x^{\frac{2}{2}}+y)^{-\frac{7}{9}}$   $\frac{7}{9}(x^{\frac{1}{9}}+x^{\frac{3}{9}}-x^{\frac{3}{9}}+x^{\frac{1}{9}}-x^{\frac{1}{9}})$   $\frac{7}{9}(x^{\frac{1}{9}}+x^{\frac{3}{9}}-x^{\frac{3}{9}$ 

(4x-6)(x+2)(x-3)(x+5)

$$4x^4 - 8x^3 - 23x^2 + 27x + 18 = 4(x+2)(x-3)(x+\frac{1}{2})(x-\frac{3}{2})$$

Thobepka:

1/2

-1/2

3/2

-2

-6

0

-4

O

$$X=-2$$
:  $9(-2)^{4}-8(-2)^{3}-23(-2)^{2}+27(-2)+18=0$ 

$$X=3$$
:  $4(3)^{4}-8(3)^{3}-33(3)^{2}+27(3)+18=0$ 

$$x = \frac{1}{2}$$
  $y(-\frac{1}{2})^4 - \xi(-\frac{1}{2})^3 - 23(-\frac{1}{2})^2 + 27(-\frac{1}{2}) + 18 = 0$ 

$$\chi = \frac{3}{2}$$
:  $4(\frac{3}{2})^4 - 8(\frac{3}{2})^3 - 23(\frac{3}{2})^2 + 27(\frac{3}{2}) + 18 = 0$ 

Onbem: 
$$X_1 = -2$$
;  $X_2 = 3$ ;  $X_3 = -\frac{1}{2}$ ;  $X_4 = \frac{3}{2}$ 

300 HILL 7 
$$\frac{1}{4} + 223 = 523$$

1 enocot:

 $\frac{1}{4} \times = 523$ 
 $\frac{1}{6} \times = 223$ 
 $\frac{1}{4} \times = 300$ 
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 $\frac{1}{4} \times = 300$ 
 $\frac{1}{4} \times = 43$ 
 $\frac{1}{4} \times = 105$ 
 $\frac{1}{4}$ 

$$= \begin{bmatrix} 2, 1, 2, 4, 4, 4 \end{bmatrix}$$
2)  $627 = 1.233 + 161$ 
 $233 = 1.161 + 72$ 
 $161 = 1.72 + 17$ 

$$\frac{627}{233} = \begin{bmatrix} 2, 1, 2, 4, 4, 4 \end{bmatrix}$$

3aganul 10  $\frac{x^5 + 2x^4 + 9x^3 + x^2 + 9x + 9}{3x^3 + 2x^2 + 9x + 9}$  Browleye  $\mathbb{Z}/5\mathbb{Z}$ 

$$t_{poblipie a} = (3x^3 + 2x^2 + 4x + 4)(2x^2 + x + 3) + 3x^2 + 3x + 2 = x^5 + 3x^4 + 4x^3 + 4x^4 + 2x^3 + x^2 + 4x^4 + 2x^3 + 4x^2 + 2x^2 + 2x^2 + 3x^2 + 2x^2 + 2x^4 + 2x^3 + 2x^4 + 2x^4 + 2x^3 + 2x^4 + 2x^4 + 2x^3 + 2x^4 +$$

Ombem: 3x2+3x+2