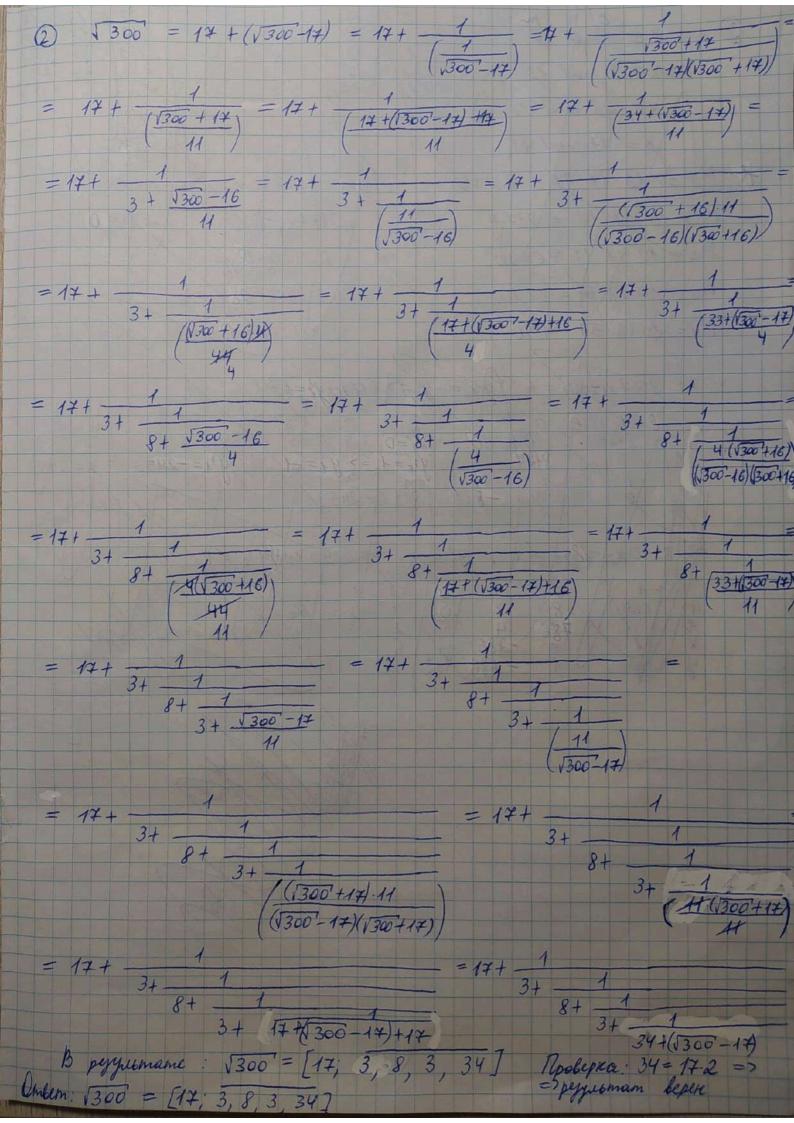
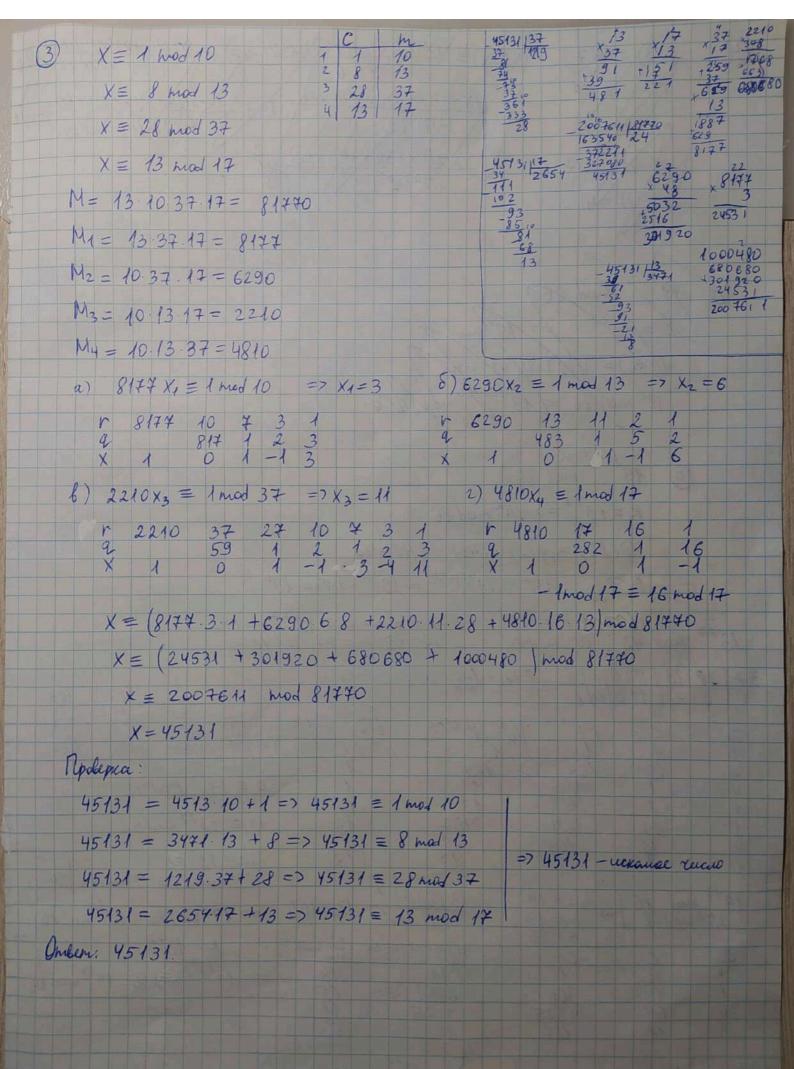
	17 lapuarem	Curk	ebur Mapul
			p. 0362
1	Taenina peu $X = -144$ $X = -144 - 123k$ $Y = -261 - 223k$		
2	[14, 3, 8, 3, 34]		
3	45131		
4	63	None	
5	-X4-4X3-X2+X+3		
6	рауисколиния кориси нет		
7	3510 mm 43g		
8	21		
9	[4, 2, 5, 1, 3, 2]		
10	3x2+x+4		

0	1561x	- 861y =	= -63 =	=> b=. c=	1561	.,	1501	
	Nyone	y = - y	=> 15	c= 61x +861y	-63 $11 = -63$	=> 6%=	= 1561 = 361 = -63	
	-1	0	1	2	3	4	5	6
r	1561	861	700	161	56	49	7	0
a		1	1	4	2	1	7	
X	1	0	1	-1	5	-4	16	
y	0	1	-1	2	-9	20	-29	
0		d=	HOD(a,	b) = 7				
		Xo = 16	=> X1	$y = X_0 \cdot \frac{C}{d}$	$=16\frac{-63}{7}$:	= -144		
		y' = -2	9 => y	4= 4%	$\frac{c^2}{d} = -29$	$\frac{-63}{7} = 2$	261	
		911 = 2	y1 =>	y, = -26	1			
	Torga	X1=-	144	частные р	unekul			
				1+ 861 k		- 123K		
	y = 0	y - ak	= -261	- 1561	-k = -261	- 223k	- obryse pe	wexue
	80	11 1		+				2 2
Проверка.						4-14	x1	144
Mozemabie	10 X1=	-144, y1	= -261 6	ucnostice !	porbnenul		7 6 2	44
1	1561 (-14	4) -861 (-261) = -	-224784	+224721=	-63 =7	22 1	17,84
Havigy e	uyé napy w	copnet c	homorysto E	- 224784 =7 x oбщего реш панощего	nogemanoli	obepro ux		× 261
$X_2 = -1$ $Y_0 = -2$	44 -1236	(-1) = -21 (-1) = -38			0		1.5	861
1561. (-	-21) -861	(-38) =	-32781 +	32718=-	63 => X2,42	верни	2	24721
2	racmude,		X1=-14	4			2 38	1561
	общи рен	uenue:	$y_1 = -2$ x = -144	-123k			2583	+3122 32781
			y = -261	-223k				





```
(4) 19 13 +7 mod 86
               k=13 xx => 19 k mod 86
                4(86) = 4(2) 4(43) = 1.42 = 42
               B Z86: 19k = 1942n+b = 1942n 19b = 19b
   13^{++} mod 42; a^{+} mod k = 13^{++} mod 42
77 38 119 19 14 12 1 740 = 10011012
                                                   C2 mud k
             C C<sup>2</sup> if(a==1) c<sup>2</sup>*a

1 1 13

169 169

1 1 1

1 1 1

13
                                                                    b = 13 + mod 42
                                                                    13 = 13 + mod 42
                         169
                                       2197
                                    169
                     169
                                                                     6=13
                                                                     19k mod 86 = 19 mod 86 =>
                                                                     => 19k mod 86 = 19 mod 86 =
    19<sup>13</sup> hod 86 | a = 19
am hod k | => m = 13
k = 86
                                         13 | 6 | 3 | 1 | 1310= 110/2
                                                                    k = 13^{77}
=> 19^{13^{77}} \mod 86 = 19^{13} \mod 86
                                                        65
14
                                         19 6859
                          CZ
                                         4225
                          4225
                                                         63
                                          2299
63 \equiv 19^{13} \mod 86

19^{1377} \mod 86 \equiv 19^{13} \mod 86 \geq > 63 \equiv 19^{13} \mod 86

Ombun: 63.
```

P(2) = -47 $+ \frac{(x-2)(x+3)(x+4)(x+1)}{(-4)\cdot 1\cdot 2\cdot (-1)} \cdot \frac{(-5)\cdot (-1)\cdot 1\cdot (-2)}{(-2)(x+3)(x+2)(x+1)} (-17) + \frac{(x-2)(x+3)(x+2)(x+1)}{(-3)\cdot 2\cdot 1\cdot 3} (-6)\cdot (-1)\cdot (-2)\cdot (-3)$ p(-3) = 18p(-2) = 13P(-4) = -17 p(-1) = 4 $-\frac{17}{36}(x^2-4)(x+3)(x+1)-\frac{2}{9}(x^2-4)(x+3)(x+4)=$ $(x+1)(x+3)(x+4)(\frac{13}{8}(x-2)-\frac{47}{360}(x+2))$ $-(x^2-4)(\frac{18}{10}(x+4)(x+1)+\frac{17}{36}(x+3)(x+1)$ $+\frac{2}{9}(x+3)(x+4)) = (x^3 + 4x^2 + 4x^2 + 16x + 3x + 12)(\frac{13}{8}x - \frac{13}{4} - \frac{47}{360}x - \frac{47}{180}) -(x^{2}-4)(\frac{18}{10}(x^{2}+5x+4)+\frac{17}{36}(x^{2}+4x+3)+\frac{2}{9}(x^{2}+7x+42))=$ $=(x^{3}+8x^{2}+19x+12)(\frac{585}{585}-47)-(x^{2}-4)(\frac{18}{10}x^{2}+9x+\frac{3642}{5}+\frac{14}{36}x^{2}+19x+12)(\frac{18}{10}x^{2}+9x+\frac{3642}{5}+\frac{14}{36}x^{2}+19x+12)(\frac{269}{180}x-\frac{158}{45}) -(x^{2}-4)(\frac{324+85+40}{180}x^{2}+\frac{81+17+14}{9}x+\frac{432+85+160}{60})=$ $= \frac{269}{180} \times^{4} - \frac{158}{45} \times^{3} + \frac{538}{45} \times^{3} - \frac{1264^{14}}{45} \times^{2} + \frac{5111}{180} \times^{2} - \frac{3002}{45} \times + \frac{269^{13}}{15} \times^{2}$ $-\frac{632}{15} - (x^2 - 4)(\frac{449}{180}x^2 + \frac{112}{9}x + \frac{677}{60}) =$ $= \frac{269}{180} \times 4 + \frac{380}{45} \times 3 + \frac{55}{180} \times 2 - \frac{2195}{45} \times -\frac{632}{15} - \left(\frac{449}{180} \times 4 + \frac{112}{9} \times 3 + \frac{677}{15} \times 2 \right)$ $-\frac{449}{45} \times^2 - \frac{448}{9} \times -\frac{677}{15} = \frac{269}{180} \times^4 + \frac{380}{45} \times^3 + \frac{55}{180} \times^2 - \frac{2195}{45} \times -\frac{632}{15} - \frac{632}{15} - \frac{1}{15} \times -\frac{1}{15} \times$ $-\frac{449}{180} \times 4 - \frac{112}{125} \times 3 - \frac{671}{60} \times 2 + \frac{449}{45} \times 2 + \frac{449}{45} \times 2 + \frac{2240}{45} \times 2 + \frac{677}{45} \times 2 + \frac{449}{45} \times 2 + \frac{677}{45} \times 2 +$ Rpobepica: $Y = -X^4 - 4X^3 - X^2 + X + 3$ 2-1-6-13-25-47=>P(2)=-47 -3-1-12-5 18 => p(-3)=18 -2 -1 -2 3 -5 13 => p(-2)=13-1 5 -17 => p(-4)=-17 -1-1-32-1 4 => p(-1)=4 Omben - - X4 - 4X3 - X2 + X + 3.

(6) $\chi^4 - 5\chi^3 - 6\chi^2 + \chi - 2 = 0$ Проверки: x 1 -5 -6 7 -2 1 1 -4 -10 -3 -5 => +(1)=-5 [11]=1-5-6+7-2=-5 -11-607-9=>f(-1)=-9 f(-1)=1+5-8-7-2=-9 21 - 3 - 12 - 17 - 36 = 9 + (2) = -36 + (2) = 16 - 40 - 24 + 14 - 2 = -36-2 1 -7 8 -9 16 => f(-2)=16 f(-2)=16+40-24-14-2=16 Провереные все потенциально возмотные кории. Ответ: рациональных корпил нет. (4x+77 = 313 (8 cc) I cnocos: 48 = 410 4x+77=313(8CC) 778 = 7.8+780 = 6310 =7 313g = 382+181+38°=192+8+3 = 20310 4x+63 = 203 (10 cc) 4x + 63 = 2034x = 140X = 35 (10 cc) 3510 = 430 X= 43 (8ec) Il crocos: Bu burnamence & 8 CC 4x + 77 = 3134x + 77 = 313 4x = 313 - 774x = 214 X = 43 (800) X=35 (10 cc) 438 = 4.8+3.8° = 3510 Umbern: X = 3.510; X= 438

(8)
$$\frac{3}{48}$$
 6 \mathbb{Z}_{9} , => 7 $\frac{1}{48}$ 6 \mathbb{Z}_{91}
 $X = \frac{1}{48}$
 $48x + 319 = 1$
 $48x - 310 = 1$
 $49x - 310 = 1$

