13-21 Huyuy 0362 1) {x=225-113K y=207-104K 2) [19;1;6;1;38] 3) x = 25491 mit 4) 25 mod 49 5) x4+4x3-2x2-x+4 6) 9 7) 7=435=23,0 8) {x=592-91K y=481-44K 9) [2,4,4,1,3] 10) x2+2x+1

1) 1968 x - 1921y = 153 PC y=-4 17687+1921y=153 May (1768; 1921) = 17 4 17 7 1921 1768 183 85 68 9 - 1 19 1 1 7 0 1 -1 12 -13 25 y' 1 0 1 -11 12 -23 a=1768 6=-1921 C = 153 d=17 y, = -41 = 23 7=25.94-113K = 225-113K y=23.7 \$ 164K = 207 \$ 104K Ombem: 5x=225-113K (y=207-109K

1) Jogs = 19 + J395 -19 = 19 + 1 194 - 14 1 1 = 1 134 - 15 2434 (Visi +15) 5 +40 =19+1+1 6+3(0593+15) 6+1 1+0593-19 1+ (Just 19) = 19 + 1+ 6+ 1+ 18+ 553-12 - 19+-19 = [19: 1;6; 1;36

4) 235 93 O Typological extension hours sharen all K=577 9(49) = Toolegas; ense [ao; ..., an] excer 200 = 3 dn, no ambem bepresen R=42n. B=5+ 19.2 = 36 => 7.m.g (P(42) = 0 3) X = 35 mad 37 6 = 5 12 2 X = 16 mod 25 7= 3 mad 27 77=12 a=7+2 a, = 35 My = 17 9= 5 a = 16 m2 = 25 B=50 n a, = 1 m3 = 27 5 = 10 Mo = m, m, m, = 24975 My = 24979 = 675 1/2 = 24975 = 949 1 2  $M_3 = \frac{24975}{27} = 925$ 675. 4, = 35 mod 37 => 94, = 35 mod 37 17 91 = 0 999 · 4 = 16 mad 25 => 2 4 4 = 16 mad 25 925. y, = 3 mod 27 => 74, = 3 mod 27 X = 8,37+9,25+12,27=25491 am Rychepped: 25491 mod, 37 = 35 25497 mod 25 = 16 10 mg 25494 mod 27 = 7

4) 235 97 modyg (199) = 72, 6 = 42 1(92) = 9(2) . (9(2) . (9(3) = 12 6=512Z+d mad 12 77=122+0 VF17-242 77 72 6=5 mod 42 5= 10/2 C'-d mod K 0 C C C d 17 1 25 625 3125 1= 23 H mod 49 17 = 10001 C'a mod K d. C C2 C2 23 529 39 23 529 1521 1521 16 368 25 Onless. x= 25 mod 49

5) p(-3) = +38 p(2) =42 p(-+) =-18 p(-1)=0 p(-4)=-24 (-5)1-1/1-2)1 + (x+3)(x-2)(x+1)(x+4)(-18) + (x+3)(x-2)(x+1)(x+1)(-24) + (-1)(-6)(-2)(-3) Om = 17 (x4+52-20x-16)+ 7 (x4+10x3+352+50x+24) - 4 (x46x3+22-16x2) 1 con - = (24+421- x2-16x-12) = (19 + # - 9 - 2) x4 AMA = 223 + (19+7-27-8) x3+ (49-27+2) x2+ (-76+35-14+32) 2 +(-304 + 54 + 8)= = x4+4x-2x-x+4 Ombern p(x)=x+4x3-2x2-x+4 Thoroperd 20 p(-3) = 81 - 108 + 18+4=-38 p(-1)=1-4-2+1+4=0 p(2)=42 P(-4)=-18 p(-4)=-24 4.19.9

6) 24-5x3-6x2+7x-2=0 1 = ±2;±1 = ±2;±1 1-5-67-2 1 + -4 -10 -3 -5 1-607-9 2 1 -7 -12 -17 -16 -2 1 -7 8 -9 16 Omber passusualisera repuer nem. 4) 1/2 +121= 1003; ing incod! 12/5 = 25+10+1=36 1001, = 125+3=128 4x=128-36=92 x= 23,0 23 7 1= 43-Ichocas: 41 + 121 = 10035 19x=1001; -1215 1003 3725 4x=3325 =7x=435 Ombern: x=43,=23,0

8) x= 37 mod 91 74x -914 = 37 y = -4 774 + 914 = 34 peop (99, 44) = 1 1 3 1-10 2 91 74 17 9 -11 16 0 a = 77 6=91 C = 3# 7, = 16 y1= +13 X = 16.37 \$ -91 K = 392 - 91K y=13-37-74K=481-74K Omben: 5x=592-91K 1 y = 481 - 74K

 $\frac{9}{339} = 2 + \frac{80}{339} = 2 + \frac{1}{339} = 2 + \frac{1}{419} =$ 758 = [2;4;4;4;1;3] 1 cnocod: 758 = 2.339+80 19=4.4+3 3=3.1 Inben: [2, 4, 4, 4, 1, 3]

10) x + x + x + x + x + x + x = \[ \frac{1}{37} \] x3 + x4 + x + 2 x+2 | x3 + 2 x2 + x + 2 x +12" + x 1 +2x2 x 2 +2x +2 22472+27 224+23+22+7 2x1+2x+ +x+2 223+22+24+1 22+21/+1 Tipolepra: (x3+2x2+x+2)(x+2x+2)+(x+2x+1)= = x5+2x4+2x3+2x4+x3+x2+x3+2x2+2x+2x++x++++x2x+15 = 75 + x4 + x3 + 2 x +2 , 7.19 Ombem: x2+2x+1