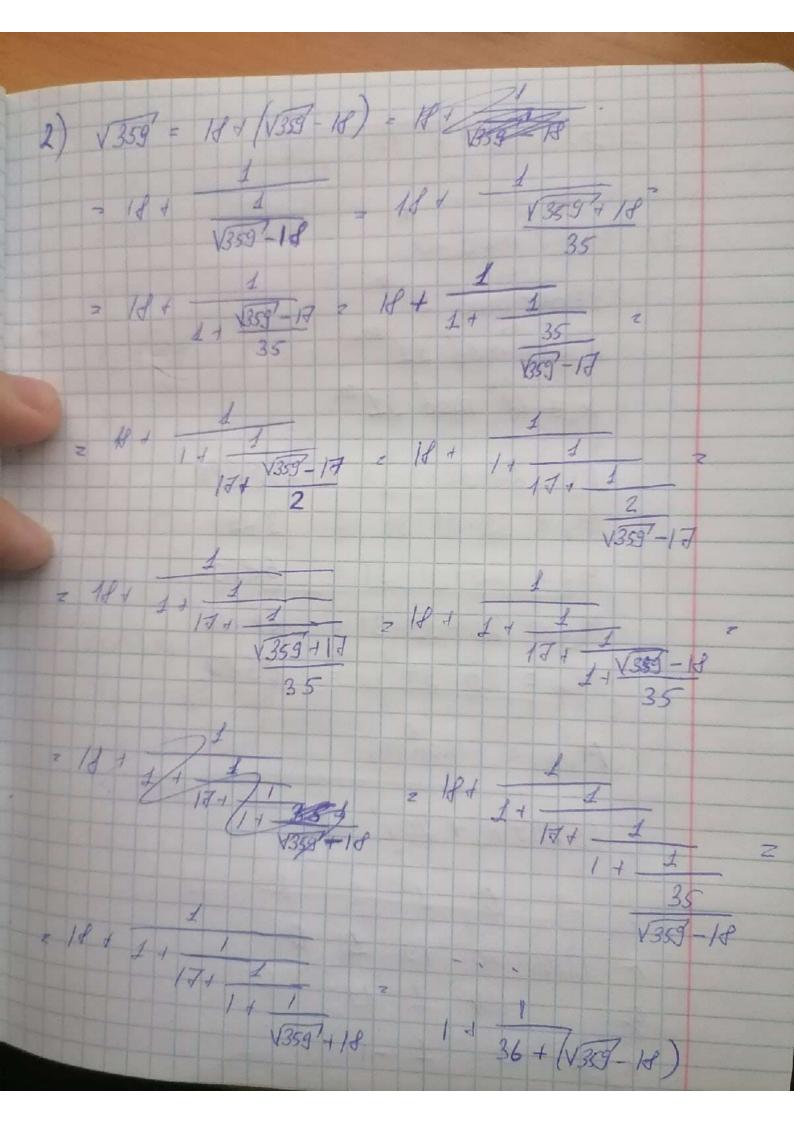
1) 3575x+18464=117 /: 13 3575-1846= 1729 1846-1729=117 1729-117.14=91 117-91226 91- 78=13 26-273 = 0 2 75 x + 1424 2 9 -101234 275 142 133 9 7 2 10 9 1 9 14 1 3 2 x0 1 0 1 -1 15 -16 6663 4. 0 1 -1 2 -29 31 -122 567 Xo = 66-9 + 142k 902 -1098 - 275K Orber 1 X = 567 + 142 k 4 = -1098 - 275k KEZ



2> 18; 1, 17, 1, 36 3) x = 7 mod 20 mi X = 27 mod 39 m X, = 9 mod 11 m3 x= 18 mod 31 mm M = 20 - 39 - 11 - 31 = 265 980 M, 2 39.11.31 2 13 299 M2 2 20-11-312 B820 M3 = 20.39.31 = 24 180 My = 20.39.11 = 8580 M,x, z I mod m, 13299 x, + 204' = I i -1 0 1 2 3 1- 13299 20 19 1 0 9 664 1 19 x 1 0 1 -1

X, = -1 mod 20 = 19 mod 20 M2 x2 2 1 mod m2 (-10123 r 6800 39 34 5 4 1 6820 X2 = 2 mod 39 9 174 1 6 1 6820 ×2 + 394 > 1 x 1 0 1 -1 7 -8 X2 = 38 mod 39 = 31 mod 39 1-10123 M3 x3 z I mad m3 r 24/80 11 2 1 9 2/98 5 24/80 x3 + 1/4" = 1 × 101-5 X3 = 3 mod 11 = 6 mod 11 6-10123 Myxy = 1 mod my N 850 31 24 # 3 1 8580 X4 + 314 = 1 9 216 1 3 2 × 1 0 1 - 1 4 - 9 X4 = 91 mod 313 = 22 mod 31 14634387 X = (13299.19.7 + 6820.31.27 + 24180.6.97 + 15 fo. 22.31) mod 265980 = 5487 mad 265980

4)
5)
$$\rho(3) = -47$$
 $\rho(1) = -1$
 $\rho(4) = 5$
 $\rho(4) = 40$
 $\rho(2) = -22$

$$f(x) = \frac{(x-1)(x+1)(x-4)(x-2)}{(3-1)(3+1)(3-4)(3-2)} \cdot \frac{(-4\pi)}{4} + \frac{(x-3)(x+1)(x-4)(x-2)}{(1-3)(4+1)(4-4)(1-2)} \cdot \frac{(-4\pi)}{4} + \frac{(x-3)(x-1)(x-4)(x-2)}{(-1-3)(-1-1)(-1-4)(-1-2)} \cdot \frac{(x-3)(x-1)(x-1)(x-4)(x-2)}{(4-3)(4-1)(4\pi)(x-2)} \cdot \frac{(x-3)(x-1)(x+1)(x-4)(x-2)}{(2-3)(2-1)(2+1)(2-4)} \cdot \frac{(x-3)(x-1)(x+1)(x-4)(x-2)}{(2-3)(2-1)(2+1)(2-4)} \cdot \frac{(x-3)(x+1)(x-4)(x-2)}{(2-3)(2-1)(2+1)(2-4)} \cdot \frac{(x-3)(x+1)}{(2-3)(x-1)(x-4)(x-2)} \cdot \frac{(x-3)(x+1)}{(2-3)(2-1)(2+1)(2-4)} \cdot \frac{(x-3)(x+1)}{(2-3)(2-1)(2+1)(2-4)} \cdot \frac{(x-3)(x+1)(x-4)(x-2)}{(2-3)(2-1)(2+1)(x-4)(x-2)} \cdot \frac{(x-3)(x+1)}{(2-3)(x-1)(x-4)(x-2)} \cdot \frac{(x-3)(x+1)}{(2-3)(x-1)(x-4)(x-2)} \cdot \frac{(x-3)(x+1)(x-4)(x-2)}{(2-3)(2-1)(2+1)(x-4)(x-2)} \cdot \frac{(x-3)(x+1)}{(x-4)(x-2)} \cdot \frac{(x$$

· (x-4)(x-2)+24(x-3)(x-1)(x-4)(x-2)+ $+\left(-\frac{4}{3}\right)(x-3)(x-1)(x+1)(x-2)+\left(-\frac{4}{3}\right)(x-3)(x-1)$ *(x+1) (x-4) = 15 47 (x2- f)(x-4)(x-2) 247 (x3-x-4x2+4)(x-2) 2 247 (x34x2x+4)(x-2)=47 (x4-4x3-x2+4x-2x3+8x2+2x-8)= = 47 (x4-6x3+7x2-16x2-8) 1 (x2-2x-3)(x-4)(x-2)2 12 (x3-2x2-3x-4x2+8x+12)(x-2) = 1 (x4-6x3+5x2+12x-2x3+12x2=-10x-24)= = 12 (x4-8x3+17x2+2x-24) 24(x-3)(x-1)(x-4)(x-2) = 24(x2-4x+3)(x-4)(x-2) = 224(x3-4x2+3x-4x2+16x-12)(x-2)= = 24(x 4-8x3+19x2-12x-2x3+16x2-38x+24)= = 24 (x 4-10 x 3+ 35 x 2-50 x + 24) -4 (x-3)(x-1)(x+1)(x-2)=3(x2-1)(x-3)(x-2)= $z - \frac{4}{3}(x^3 - 3x^2 - x + 3)(x - 2)z - \frac{4}{3}(x^4 - 3x^3 - x^2 + 3x - 2x^3 + 6x^2 + 3x^2 - x^2 + 3x - 2x^3 + 6x^2 + 3x^2 - x^2 + 3x - 2x^3 + 6x^2 + 3x^2 - x^2 + 3x - 2x^3 + 6x^2 + 3x^2 - x^2 + 3x - 2x^3 + 6x^2 + 3x^2 + 3x - 2x^3 + 6x^2 + 3x^2 + 3x - 2x^3 + 3x - 2$ +2x-6) 2-4(x4-5x3+5x2+5x-6)

- 1 (x-3)(x-1)(x+1)(x-4) 2 + 3 (x3-3x2 + 13) · (x-4) = - 3 (x4-3x3-x2, 3x - 4x3412x344x12 = - 1 (x4- 7x3+11x2+7x-12) ((4) + 12 + 24 - 4 - 11) × 4 + (4) (6) + 12(-10) + 24(-10) + + (- 4)(-5) + (-1/3)(-3)) ×3 + (47/7) + /2(17) + +24(35)+(-4/3)5+(-1/3).11) x2+(47/6+1/2·2+ +24 (-50) + (-4) 5+ (-11) × + (47 (-8) + + 12(-24) + 24(24) + (-4) · (-6) + (-12) = = 19 = 3 × 4 4 - 2584 × 3 + 835 = 13 × 2 - 1196 = x = 7) 7× +127 = 703 6 8-purt CC 1. 7x = 703-127 554 7 52 34 34 34 703 127 7×2554 554 ×2648

2. 7x+127=703 TX+872451 7 x = 364 x 2 52 Orber: 64, 52,0 8) x 2 11 mod 99 26 x = 11 mad 99 26× + 99 4 2 11 6-101234 r 26 99 26 21 5 1 9 0 3 1 4 × 1 0 1 -3 4 -19 X= -11.19 + 99 k = -209 + 99 k X 2 1 prot 30 MAZZ 2 > K20-X = ff 9) 447 2 2 + 43 = 2 + 1 = 2 + 4 + 30 = 2 + 4 + 30 =

10) -2 x5 + x 3 + 2 x2 + x + 2 | x3 + x2 + x + 1 $x^{4} + x^{3} + x^{2} + x$ $x^{3} + 2x^{2} + 0 \cdot x + 2$ $\frac{x^3 + x^2 + x + 1}{x^2 + 2x + 1}$ Atlet: X2+2x+1