



WUHAN UNIVERSITY Wuhan 430072, Hubei, P.R. China 中旬 · 表具 Tel.(927)

信空藏某第4次作业一路子了一202202181149
4): 7-1 y= x3-2x+3 (mod 7)
$y=0$ , $y^2=3$ (mod ) 7, $\sqrt[3]{4}$ ; $x=1$ , $y^2=2$ (mod ), $y=3$ , $\sqrt[4]{(mod 7)}$ , $y=2$ , $y^2=0$ (mod 7), $y=0$ (mod 7), $y=0$ (mod 7), $y=3$ , $y^2=\frac{3}{2}$ (mod 7), $\sqrt[3]{4}$
x=4, y=3(mod7), 双解, x=5, y=6(mod7), 观器
8=6, y2=4 (mod7), y=2,5 (mod7)
艾有与了五分别是(0,3),(0,4),(6,2),(6,5),(2,0)
(10) 水角 同杂式 x2=79 (mod 105)
$x^2 = 78 \pmod{105} = 1 \times x^2 = 78 \pmod{5} = 4 \pmod{5}$
$8^2 = 78 \pmod{3} = 1 \pmod{3}$
(3 = 79 (mod 7) = 2 (mod 7)
$M_1 = 21$ , $M_2 = 35$ , $M_3 = 15$ $y = y_1 = \pm 2 \pmod{5}$
$M_1' = 1 \pmod{M_2'} = 2 \pmod{M_3'} = \frac{1}{2} \pmod{7}$ $X = X_2 = \pm 1 \pmod{7}$
中国制保度理,18.分解196x=b1×21+b2×70+b3×60 (modio)
x1= 2x2  + 1x70+ 3x60 (mod/05)= 82 (mod rot)
x2 = 2x21+1x70-3x60 (mod 105) = 37 (mod 105)
x3= 2x21-70+3x60 (mod 105)=47 (mod 105)
X4= 2x21 -70 - 3x60 (mod (05) = 2 (mod 105)
75== -1 x2/+70 + 3x60 (mod 105) = 103 (mod 105)
16=-2x21-70+3x60 (mod 105) = 68 (mod 105)
1705546 = -2×2   +10 - 3×60 (mod 105) = 58 (mod 105) 第页 8×至 -2×2   1-70-3×60 (mod 105) = 23 (mod 105) 30000

$$\frac{1}{312} = (-1)^{\frac{15}{2}} = (-1)^{\frac{15}{2}}$$

(3)  $|1| \times^{2} = -6 \pmod{91}$   $= ) \left( \frac{|1| \times^{2} = -6 \pmod{91}}{|1| \times^{2} = -6 \pmod{13}} \right) \quad (\frac{1}{13}) = (\frac{1}{13}$