a is a control of Ba a, m e 2 => \ 18.7.2023 3,6,9: a=m9+6 b/m a.q=b] a divides b 6 = a - m.g Amy module M = {m.d/mez} = { m. d | ne 2 } GA =A Eles Theorem

Chiese Renaudy N= TIM X Ea mid My × = a2 mod M2 X = 92 mod Ms has a unque solution, if (in; , nj) = 1 (i + j) Poof : Solution is unque (Euler 2) X-Y = On mod My x-y = 0 mod me =) x-y = 0 mod m, m2 (som mg) = 1 (2) X = a mod M, x = a2 mod me 9, m, + 92 m2 = 1 (End Ends) 9802 = 1 - 9, m, 9,2 = 9, 92 ME + 92 9, Ma

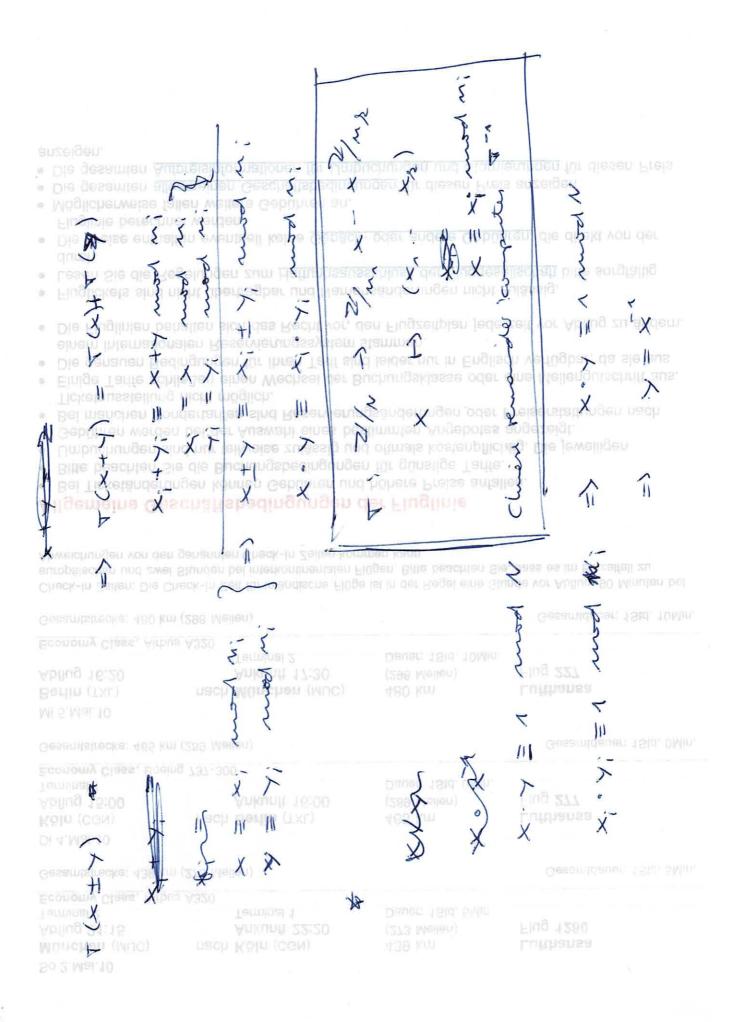
= 9, + (92-9) · 9, M = 9, mod My

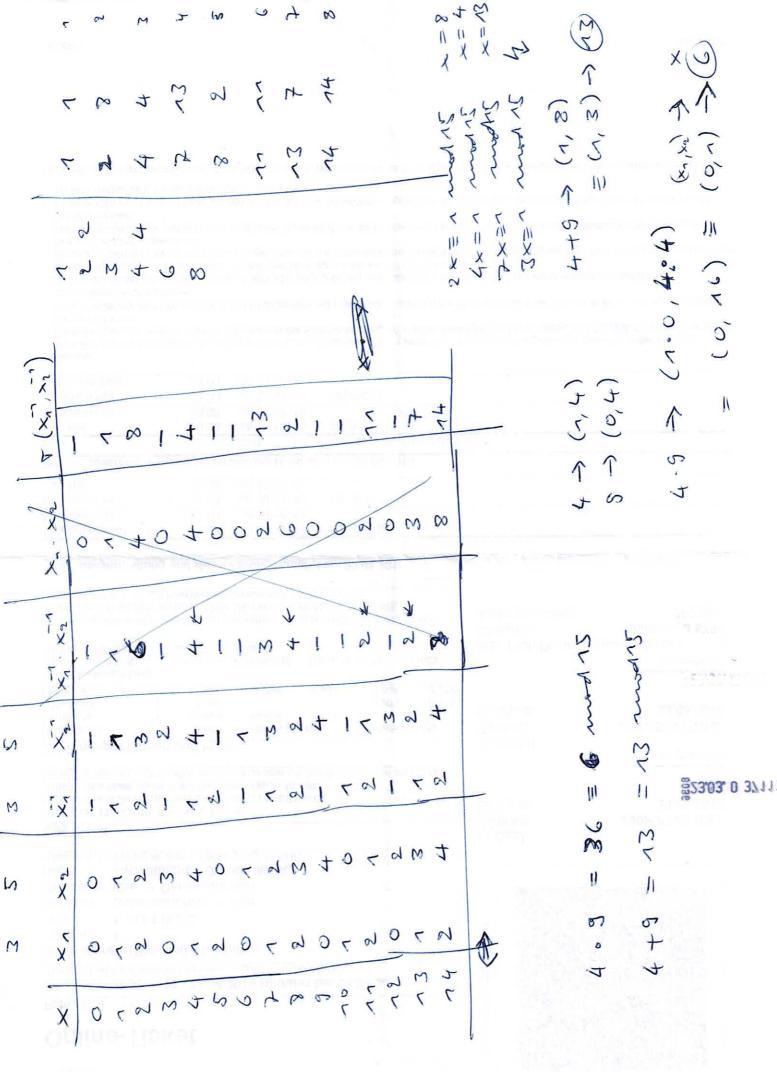
or The = 2/m x -x /mg and an mod ma and = ar mod me X = 9,2 mod My. ME X = a3 mod M3 X = an mad ma x = a mod m $x = q_1 \mod m_2$ $x = q_2 \mod m_2$ $(m_1 m_2) = 1$ $\Rightarrow q_1 m_1 + q_2 m_2 = 1$ $\Rightarrow q_1 m_1 + q_2 m_2 = q_1$ $\Rightarrow q_1 m_1 + q_1 q_2 m_2 = q_1$ $\Rightarrow q_1 m_2 = q_1 (1 - q_1 m_1)$ $compute q_1, q_2 by estimate ended, then$

 $\alpha_{12} = x = a_1 q_2 a_2 + q_2 q_1 a_1 = F(a_1, a_2, m_1, m_2)$ $= a_1 (n - q_1 m_1) + a_2 q_1 m_1$ $= a_1 + (a_2 - a_1) q_1 m_1 = a_1 \mod m_1$

 $3 \mid 2 = 3$ $\times = 3$ $\times = 792$ $3 \mid \times = 2792$ $3 \mid \times = 792$

X = 9ne mod my X = 9ne mod my X = 9ne mod my X = 9ne mod m, me X = 9ne mod mg





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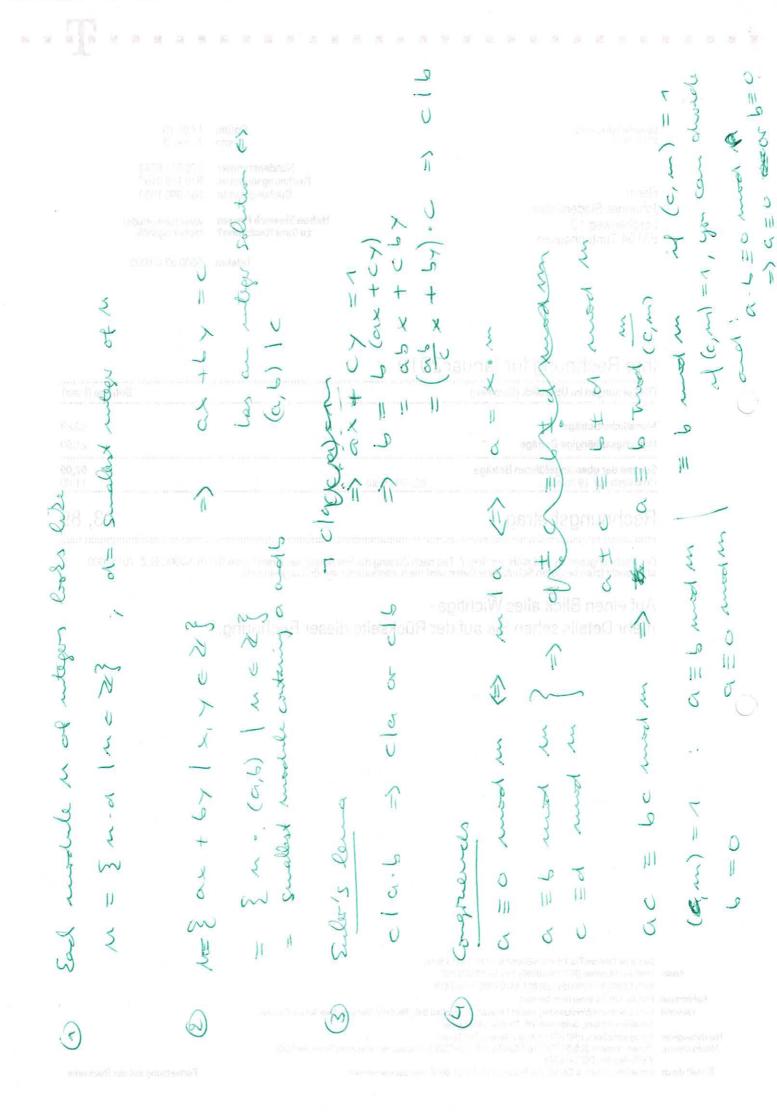
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N=8midl=3 AxeMtoNex - MAR EMARTING コB シュイニール、ソコイル I wemt 5 | 5 -- 1 No. m3 = m/ = of = min {x > 0} A1C (0,6)1C M surselule A J A2 Proof 1 5.0 110 (d,0) = L 2- 1 = 23 , d- 55 = M (= (0, b) M= { cx + 5x / x, x = { c, b} = { m od | m = 2} N= {ax + by 1 x, y = 2} is a module with a of = smallest witego in M B V D.W.X IX V O Early middle M of nitoger) looks Wer Ocano : Arrume x e M with y matega, year & h. d < x < (m+1).d los sutego colitions oby if M = 8 m.d | me 23 ax +by = c The equation (0,6) ((89)

010,6 5 S. Cles 1 5 De (ab x + by) If a leve) and (0,0)=1 then all = 6 (ax + cy 1 abx t ļi _0 介 (b) = 1 X

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Vertragsnehmer: Herr Johanne Zarl Sieders

Rechnung Oktober 2010 für Rufnunner 0178 -

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