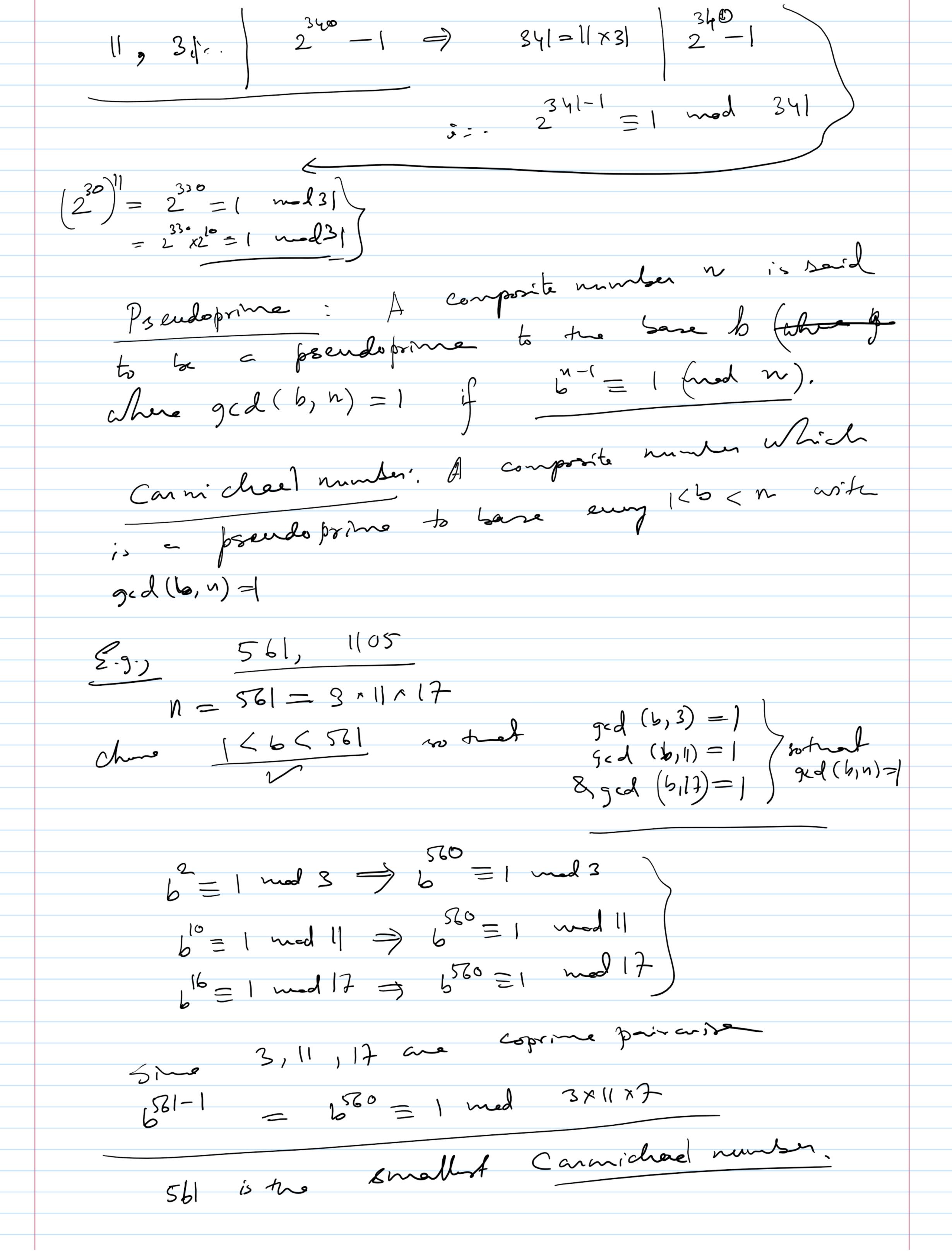
Strong fine 
$$\beta$$
 $\beta-1=2rj$ 
 $r-1=2tm$ 
 $\beta+1=22t$ 
 $\beta=3628273123$ 
 $\beta-1=3628273132$ 
 $\beta=2628273123$ 
 $\beta=2628273123$ 
 $\beta=2628273123$ 
 $\beta=2628273123$ 
 $\beta=2628273123$ 
 $\beta=2628273123$ 
 $\beta=2628273123$ 
 $\beta=2628273123$ 
 $\beta=262211 > 128612$ 
 $\beta=26211 > 128612$ 
 $\beta=26211 > 128612$ 
 $\beta=2611 > 128612$ 
 $\beta=26$ 



Chome 6=3 for n=341
341-1 = 2  mod  341 $3 = 56$
=1 med 34)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Fermatis primality test fails for 341
de la la prostation de la composite
For this test the output is either get a composite humber of test fails.
Wilson's Prime if Rouly if
(n-1)! = -1  (m-1)
Prof. Sypne N=), a prime.
Then $1, 2, 3, \ldots, (p-1)$ are units in $\mathbb{Z}_p$
$\left( \operatorname{cor} \left( \mathcal{Z}_{p} \right) = \mathcal{Z}_{p}^{\times} = \mathcal{Z}_{p} \setminus \{ o \} \right)$
In the gramp Zp enny element has a unique invene. Pair each with its invene.
invene. Pair each with 123?
$\exists  (m$
$\frac{1}{(= \forall -1, \forall p)}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
= -1 (mad p)
Convene, Assure $(n-i)! \equiv -1 \pmod{n}$ Suppose $n$ is not a positive. Let $n \nmid d \mid n \mid$
Suppose $x$ is $x^{2} + x^{2} + y^{2} + y^{2}$
Sme n (n-1)!+1, d (n-1)!+1 on the other thand d (n-1)! (sme 1 <d<n)< td=""></d<n)<>

This d11 a contradiction So nombre a prime. Miller-Redsin tot: Propri: Let b be an ogo brime & write

Propri: Let p be an ogo brime gcd (2,19)=1 Let GEN s.t. p/a. Rem one of the fellowing State ands 13 true  $(1) \qquad \alpha^9 \equiv 1 \quad \text{wed} \quad \rho$ one of a, 29, 29, ..., a