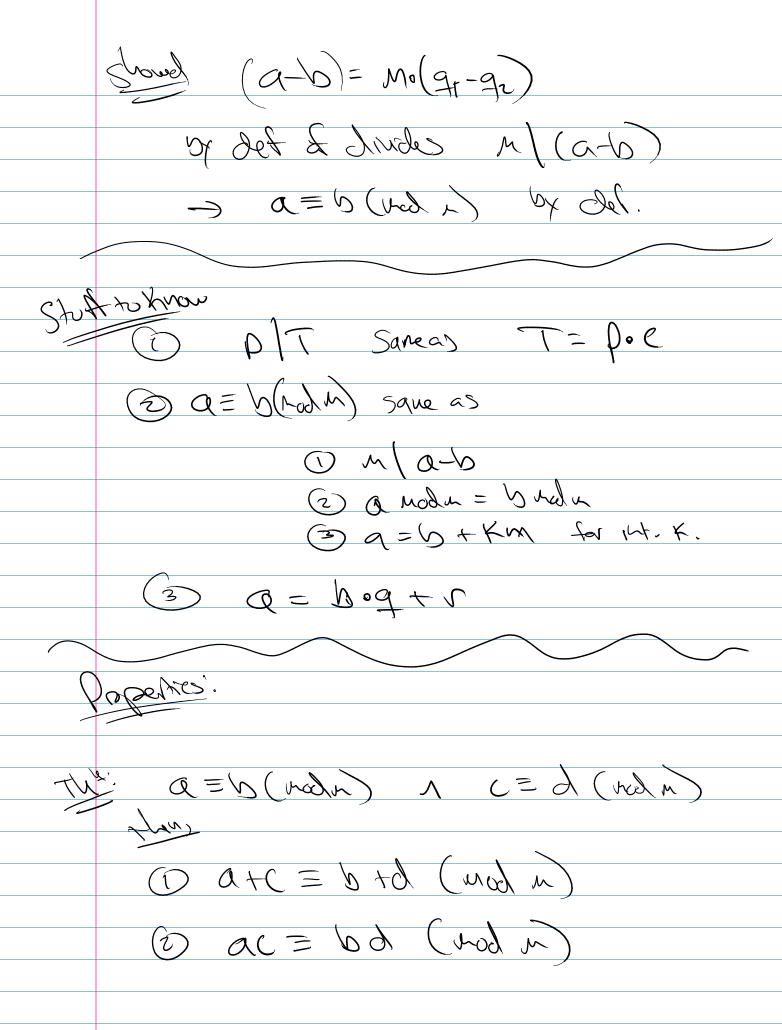
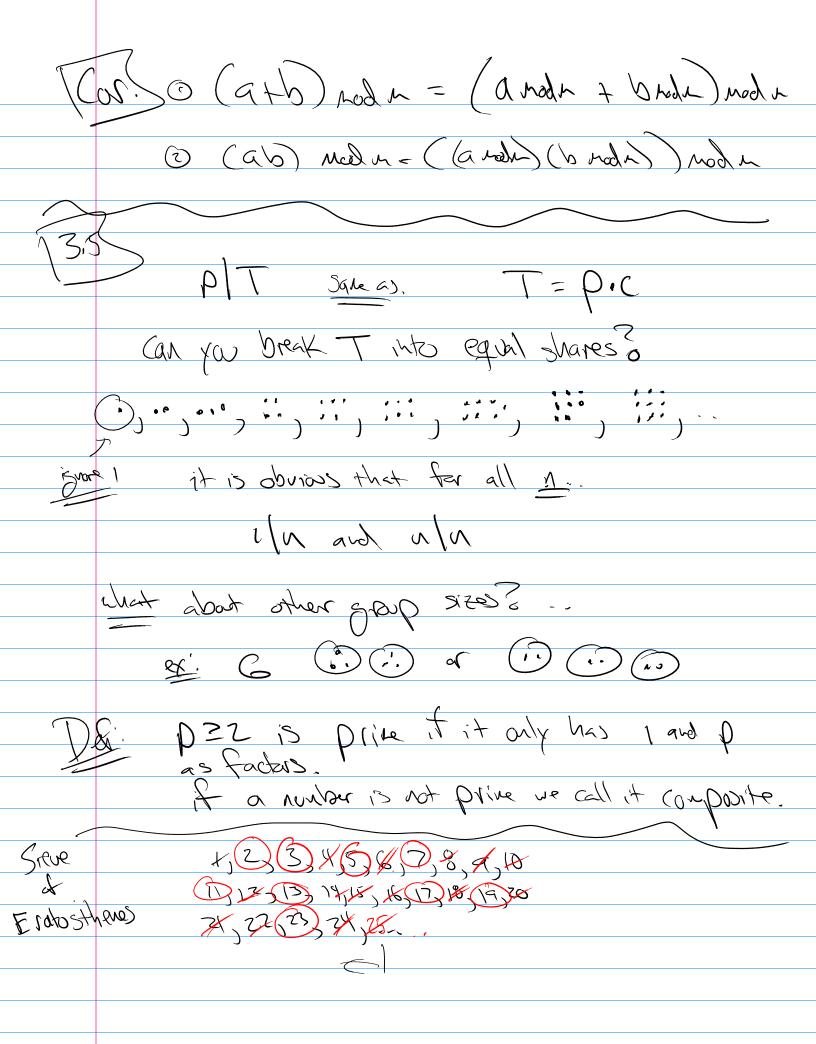
	Math 321	
	Modulus	
	New idea for "Sque"	
	a is the Same as b	
	house the same revailed	when divided by M.
	$a = b \pmod{n}$	
	Cargnent.	
	TO a nod m = 10 nod m	same as
S.	0 m (a-b	a-15 = MIK
	3) Q= b+ mx for an integer v	<u></u>
(p.	209 (11) (-a mad M = b med u -)	a= V (valu)
	C. (Jusct)	Means
	For a ned $m$ we use the drive about $a = M \cdot q + (a \cdot nd \cdot n) = M \cdot q_1$ $b \cdot nd \cdot m \rightarrow b = m \cdot q_2 + (b \cdot nd \cdot n)$	14 ( a - v)
	^	
	So a-b= (mg, +r) - (ng, +r)	)= M(q,-qr)





S	o Now vary Prices6
	1. (Fund. the of trishnetic)
10	
	Every positive stocker 22 is a Drive
	or a unique product of prime wither is non-decorder.
	8=2.7.2 12=2.7.3. 4Z=2.3.7
	2 21
	3 7
	Finding Prime Factors.
	the of the a privation is the a
	C , $C$
(	Df: N=9.6 2595N-1 622
	$\rightarrow$ (a $\leq \pi$ or $b \leq \pi$ )
0	DY Contraicher.
	$(n=a.5) \wedge (a > M \wedge b > M)$
	N = MM = N $(a.6) > MM = N$
	(a.6 > V)
	Contadiction:

How many primes. 6 this: there are infinitely namy prives. (by contradiction) assure primes are finite. P= EP1, Pz, P3, --, Pn3 are all prims. ansolu (P, Pz, P30 - Px + 1)= Q