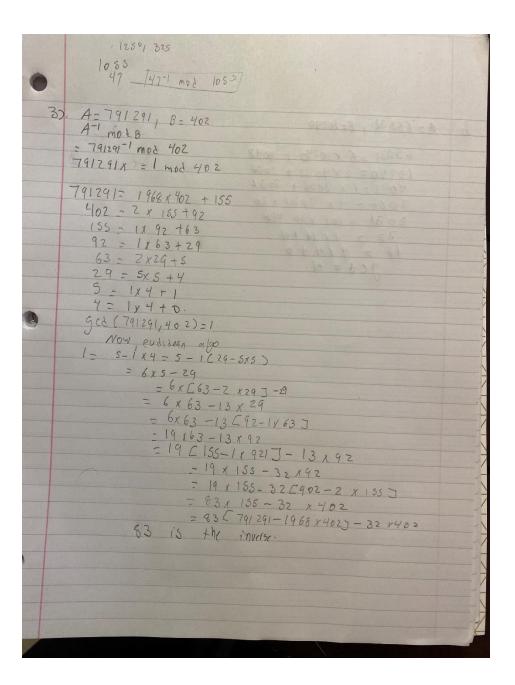
	Hmw 5
1)	(50,
9	P=3 9=11, e=7, m=5 / emytion;
	le me moen
	n= px9 = 3x11=33 = 51 moe 33
	9(n)=(p-1)x(q-1)=2x10=30 -= 14
	966(20,7)=1
	/ VECTYPTION,
	$d \times e \mod \phi(n) = 1$ = $cd \mod n$
	7 d mod 20=1 = 143 mod 33
	2=3 -[(5"mod 33), (5" mod 33, (5" mod 33, (5" mod 33)] mod 33
	private key > 23, 333 = 3875 mod 33.
	(C) p=7,9=11,e=17, m= 18
Cd.	P=5, 9=11, e=7, m=5
	n= pxq= 5x11=55 n= pxq= 7x11=77
	9(n) = (p-1). (q-1) = 4 x 10 = 40 /p(n) = (p-1). (q-1)= 60
	gcl (4013)=1 / gcl (60, 17)=1
	3 2 mod 41 = 1 / 172 mod 60 = 1
	d = 27
	0.114 1.11 (2.55.7)
	Public key = £ 3,553 public key = £17, 773
	private key = { 27, 55 } private key = {53, 773
	encryption = 93 mod 55 = 14 / encryption= 817 mod 77
	= 57
	Declyption = 1427 mod 55
	Declyption = 5763 mod 77
	-9
TO THE	

6.	P= 11, 9= 13 / c= 11, m= 7	
	1=11, 9=13 / C=11, m=7	
	1/2 / 11 -	
	0(1) = 120	
	120	
	ged (143, 120) =1	
	11 mod 120 21	
	C-11	
	public keys 4 11 1112)	
	Private key = 2 11, 1433	
	encyption: 711 mod 143 = 106	
	= 106	
	Don't also 1 / 11	
	Decryption: 106" mod 143	
	- Company of the second	
e).	P=17, 9=3, e=7, m=2	
	1.05 400 M 1141 7 m	
	No 527	
	Ø (h) < 160	
	g(d (527, 480 2=1 7 & mox 480 =)	
	1 3 43	
	Public Key 2 & 7, 5273	
	private key = 2343, 5273	
E _	(nc) pla = 27 mod 527 Decryption = 128348 mod 527	
	2100	
		T
		1

43,	4	
197	2623, 2111	
2)		
9)	we need to sigure out the private key to see the text	
	The fore to the billion be to see the text	
b).	Yes that formula will work. I the mod \$(1)=1	
()	p=43, 9=61	
	'h = 7623	
	D(n) = p(p) * p(q)	
4	D(n) = \$437 + \$(61)	
	Ø(p) = p-1 Ø(n) = 42 *60	
N. S. Carlotte and St.	Q (A) Z 2520	
	now, we calculate d.	-
	d. 2111 mod 25 20 = 1 1	-
	2 191 to starily this equation	
	50,	
	m= C= mo & n m= 1/41 191 mo & 2623	
	= 1086. Yes it boos!	
		1
		3
		1



,		
6.	A = 65532 , B= 10240	
	65532 = 6 x 10240 + 4092	
	182402 2 × 40 92 + 7056	
	10240 = 2 × 40 92 + 2056 4092 = 1 × 2056 + 2036	
	2056 = 1 x 2036 + 20	
	2036 = 101 x20 +16	
	20 0 1 x 16 + 4	
	16 = 4 × 4 + 0	
	00104	
	gcd = 4.	
	the of relation to the course	
	100 0 100000	
	M 2 P 200 P	
	The state of the s	