Name: Nafinum Leo de 1997 Tour ou ou Id: 20-92195-1 tips? ruplace the letters with numberg 1. The prime factorization of 651 and 189 are

651 = 3¹. 7¹. 31¹ Replacing these numbers p of 782 ged (651, 189) = 130 7. 31 - 3-105 = 3.7.1 = \$21 lem (651, 189) = 3^3 , 7^1 , 31^1 = 5859 (Answer)

2."DO NOT PASS GOOD AUNICUM DONNEY 1-45164-96: 101 First replace the letters with numbers; 3-14 13-14-19 15-01-18-18 6-14 661 = 31 71 21 Replacing these numbers p by 5 (P)= (P-9) mod 26. 20-5 4-5-10 + 6217-(9.29 [2] 23-59 1.4.8= The encrypted message:-"UF EFK GRJJ XF (Answer)

$$A = \{x \mid x \text{ is a prime number and } x \leq 5\}$$

$$= \{2,3,5\}$$

$$PCA) = \{ \emptyset, \{2\}, \{3, 3, 3, 5, 5\}, \{2, 3\}, \{2, 6\}, \{3, 5\}, \{2, 3, 5\} \}$$

Candinality of power set of A= 8.

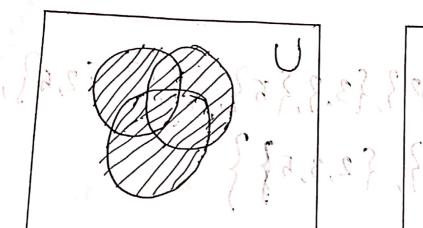
(Answer)

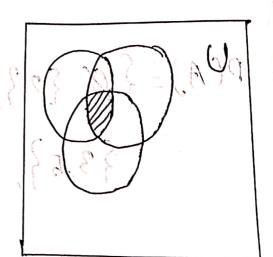
3.
$$A = \{0, 2, 4, 6, 8\}$$

 $B = \{0, 1, 2, 3, 9\}$
 $C = \{0, 3, 6, 9\}$

AUBUC= {0,1,2,3,4,6,8,9}

ANBAC = 303





S AUBUC tos noma go ANBUC.

(Answer)

3. A= {0,2,4,6,8} B=10,12,8,97 0= 10,36,99

6. Truth table:-

			_						•	
	P	2		þ	2vr	PALE	P19 (m)	par	(PAQ) V(PAM)	
		 T		T	T	7	T	T	T	
	<u> </u>	+ T		F	T	T	T	F	T	
	$\frac{}{T}$	F	+	<u>T</u>	T	T	F	T	T	
	F	T	F		F	F	F	F	F	
SECTION SECTION	F	T .	-	+	T	F	F	F	f	
F	2	, T	F	+	1	F	F	F	F	
		<i>F</i>		1		F	F	F	F	
F		F]	·F		=	F	F	F	F	

So. Pr(qur) and (prq)v(prr) are logically

equivalent.