

Section 2.1

1) PAQ b) Par c) -Pa(-QM) d) Q => 78 e) 78 ->9

- 210) there is no rain nor sun shinns, but there are downs
 - d) There is no raining only if the sunshies and clouds are on the svy
- 6) 8) If I am smort, then I am RICH
 - c) if x=0 or x=1, then x2=x
- 7) B) If I am not non, Then I am not smort
- g) If x +0 or X +1 then x + x 9) a) Does Not Hold b) No counter examples, trius + Holds
- 11) a) Not Hold, x=-1 b) Does Not Hold For x=-2 (-1+1)2>-12; X
 - ON (O

- b) 23+33 = 35 ePrime
- 12 a) 2h-1 29 = 16 -> 16-1=15 & Prime
- Not hold for h=3

Not Hold n=4

c) 27+7 =135 € Prine

Not Gold for MEZ

- (94) a) the, commutative law
 - A- E1,2,33 B= (3,45) b) Ealso

A/B= [1,2] +> (A/B) OB= E/RBA,5)

e) false, A=" B=" AUB= E1,28,9,5]

(AUB) \A = [4,5]

b) true, commitative law



	13)			
	13) Pa 7	(P ←> a)	(P) b b	RD P
dsan	0 0	0	00	0
Nong	0 1	1	11	1
13-2	10	1		
13-2		0	1	
		(1)		(man) 10 P
	@ Par PD	a)&r	(d) p p	(PPP) ⊕ P
	000 0		00	0
	001 1		1 1	1
	010 1			
	0 11 0			
1	00			
	1 0 1 0			
	1,00			
,	1111			
	(16)A) (PVQ)V (2)	r)v(rvp) v	(PVQVY)	
	(TO)A) (TVG)V (A	1770		
	,			

die

SUS

(8)c) commitative la	W							
(9) A)? the what?								
20) b) Pa 1	PVQ	900) ATP	Prove Pra					
0 0	0	0 1	-7P					
0 1	1	1 V-> PI	oves :. a					
1 0	Ø	0 1						
1 1	0	.O V						

5

