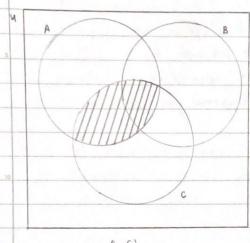
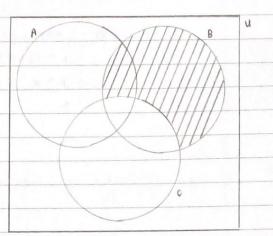




2) a) (A-C') U (B-C) + AUB

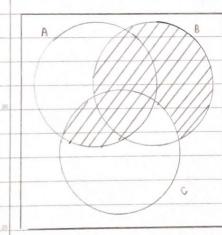


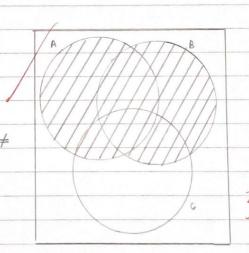


A - C'

B-C

Hence,





(A-C') V (B-C)

BUC

			,				
P)	(A 0 B) U	A-B) = A					
	(A ∩B) ∨ (	9 A - B) = (A-B)	(B \ B')	') -7 set di€ → distribu	ference law		
5		- A ^	V	-> complem	ent law		
		¥ A		- propert	ies of univer	sal set	
						3	
10							
15							
20							
25		The state of the s					
	Option of the						
30							

2)	(6)
3)	m) 5= 6 m, b, c, d, e, f, g 3
	T= { h,j,k,1,m,n,p,q}
-	E= { p, q, r, s, t, v, w, y, z}
	b) S× (TnE)
	1 n = 1 p, q3
	- fa,b,c,d, e,f,g3 x 6p,q3
- 10	5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	(6,4),(1,4),(4),1
4	) a) TRUE
	b) TRUE
	20
	z z
	30

5)	0	( )				
1	4- 9	= ( pnr)	V(qVTr)	0		
			( ) )	14 =	(pvq)	Var

1	
	10
1	10/

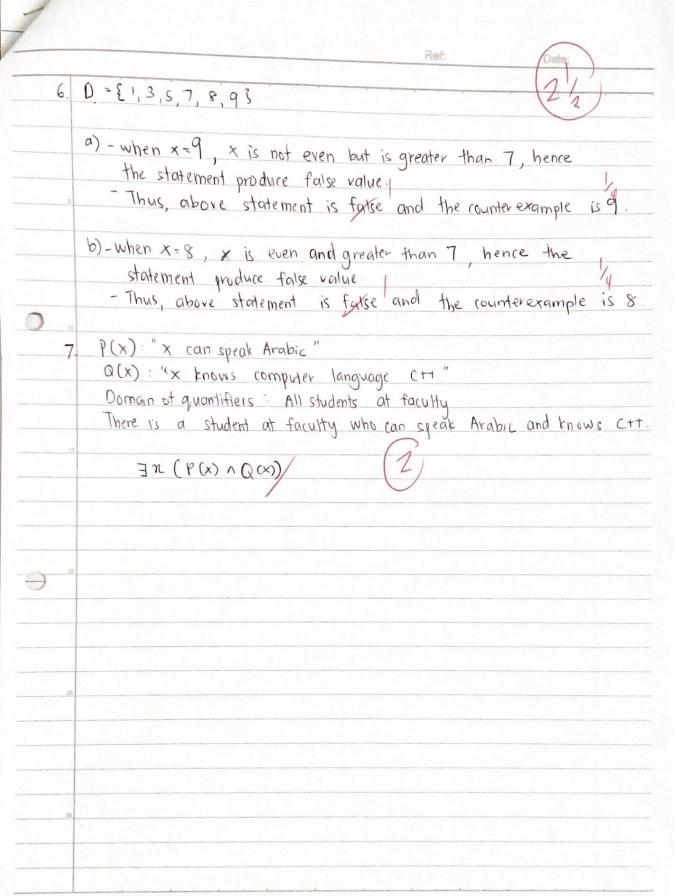
1	P	9	~	C = A . >					
1	7	<u> </u>		(prr)	75	(q, v 7/2)	(prr) v (qv 7r)	(p v q)	(pva) VTr
-		Т		T	F	T	T	T	T
	T	T	F	F	T	+			
	T	-	-	-			1	T	T
+	_	-		1	F	t	T	Т	T
-	1	F	F	F	T	T	T	T	Т
	F	T	T	F	F		T	Т	-
	F	T	F	-			1		
1	-	-		Г	1	Γ		T	T /
-	-	1	Т	F	F	F	F	F	F
	F	F	F	F	T	Т	TS	F	Т

= Q = R

## b. Q = (pnr) v = (pn =q), R = (pnr) -> (qvr)

_		T-1									
	P	9	r	pny	79	pring	7(px-19)	Q	qur	R	
	T	T	T	T	F	F	T	T	T	T	
	T	T	F	F	F	F	Т	T	T	T	
	T	F	T	T	T	T	F	T	T	T	
	T	F	F	F	T	T	F	A	F	T	
	F	T	Т	F	F	F	T	Т	T	7/	
	F	T	F	F	F	F	T	T	T	T	
	F	F	T	F	T	F	T	T	T	Т	
	F	F	F	F	T	F	T	T	F	T	
		-			1						

: Q = R



	T	
8	)	$q^2-3q$
		Let 9=2n+1
		$= (2n+1)^2 - 3(2n+1)$
	8	= (2n+1)(2n+1) -6n-3
		$=4n^2+4n+1-6n-3$
		- An <sup>2</sup> 22
		$= 2(2n^2 - n - 1) \rightarrow \text{Let } 2n^2 - \alpha - 1 = m$ $= 2m$
		= 2m/ (5)
0	10	Hence, multiple of 2 is even integer.
	9)	contradiction: Suppose no is odd an n is not odd.
		n2 is odd and n is even.
	15	Let n= 2a
		N2 = (2n)2
		= $4a^2$ (even) = $2(2a^2)$ $k=2a^2$
		- Hence, n² is even n is even
	25	- Contradiction - n2 is odd and n is odd
		- Therefore we conclude that statement is true.
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	25	
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