	• Ome wo	ork 3 + 4
-	3.5	
-	3.5.1)	
-	A.) Complement law	and the state of t
-		
-	(i) De morgan's law	
•		
	A, (Anc) v (Anc)	Gillin
	(AUA) n C	Distr.horix
	V n C	Compunint 100
		Idning
-	B.I (BUA) N(BUA)	G.V1 h
	(BAB) UA	Distringuist
	Ø U A	Compunit
-	A	I dining
-	3.6	
	3 6.2)	The second of th
	a.) x x y = { (*,52), (*,67),(+,52),(+,67),(\$,52),(\$,67)}
		x, y, z, w 6 x }
	3.4.4)	Paris of the state
3	a) {0 x : x 6 {0,13 3 -	$\{0,13^2 = \{0,1\} \cup \{0,13 = \{00,01,10,11\}$
-3	:, {0 × 3 = {000,00	1,010,0113
-3		3,13 = {0,18 U { 00,01,10,11} U any const
7777		, 10, 113
	3.7	
•	3.71)	
9 9 9		1,2,,63 AUBUC = {1,2,,6)
3	in A = D in it is a	
7	, , , , , , , , , , , , , , , , , , ,	harring Ot D

3.7 cont 3.7.1) B.) D = \(\(\) \	
3.7 cont 1 3.7.1)	
3.7 cont 1 3.7.1)	
3.7.1)	
15.) D= {1,2,3,4,5,6} BUC= {2,3,4,5}	
	-
h since D & Buc it is not a paint on be not chine:	للا
and is missing {1,2,63	:d
(,) E= EZ, 3, 4,53 1 BU(= EZ, 3, 4, 53	
LE = BUC : ir is a partition of E	•
37.3)	•
A.) NO, A, b, tC do not form a partition of R. Specifically	-
St+ A + B as not dissound	
b.) 425, ANB, UD = R : It is a partition	
C.) NO, B.D. + E do not king partition of R. Specifical	-
MIDTE are not dissound	6
4.5	6
4.5.2)	6
$A.)(f(0,g)(0) = f(g(0)) = (2^0)^2 = 1^2 = 1$	6
B.) $(f \circ h) (52) = L(h(52)) = \left(\frac{62}{5} \right)^2 = (11)^2 = 121$	6
(.) (gohof) (4) = g(h(f(4))) = g(h(42) = g(h(6))	6
= 9([16]) = 9(4) = 24 = [16]	6
4.55)	6
A.) Range O+ 9 = 82, 33	6
B.) domain or hog = {a, b, c}	6
$(.) h^{-1}(1) = 3$	
4.6	0
4.6.1)	6
$A.)(6^{k})^{k} = 6^{k^{2}}$ $(6^{k})^{k} = 6^{k^{2}}$ $(6^{k})^{k} = 6^{2 \cdot 2^{k}} = 6^{2 \cdot 2^{k}} = 6^{2 \cdot 2^{k}}$	0
B.) $(6^{2k})^3 = 6^{2k \cdot 3} = 6^{6k}$	0

	3.7 con;
	3.7.1)
	15.) D = {1, 2, 3, 4, 5, 6} B UC = {2,3,4,5}
	h sink D # BUC it is not a paristion be not entire in
	and 13 m135.ng 21, 2, 6)
	(1) \(= \(\) \(\
	LEBUC: it is a parition of E
	\(\frac{1}{4}\)
	A.) NO, A, b, +C do not form a partition of R. specifically
	St+ A + B as not dissourced
	b.) 415, ANB, UD = R : It is a partition
	C.) NO, B,P, + E do not kin a partition Of R. Specifical
	SHOTE are not dissound
	4.5
	4.5.2)
	$A.)(f \circ g)(o) = f(g(o)) = (2^{\circ})^{2} = 1^{2} = 1$
1.	B)(foh) (52) = L(h(52))= (52) = (11) = 121)
	(1) (gohof) (4) = g(h(f(4))) = g(h(42) = g(h(6))
	= 9([16]) = 9(4) = 24 = [16]
11.	4.5 5)
	A.) Range O+ 9 = 52,33
	B.) domain or hog = { a, b, c }
	$(.) h^{-1}(1) = 3$
	(.) h () = 3 4.6 4.6.1)
	4.6.1)
	$A.)(6^{11})^{11} = 6^{11}$ $(6.)(6^{21})^{2} = 6^{2 \cdot 2^{11}} = 6^{2 \cdot 2^{11}} = 6^{2 \cdot 2^{11}}$
	A.) $(6^{k})^{k} = 6^{k^{2}}$ B.) $(6^{2k})^{3} = 6^{2k \cdot 3} = 6^{6k}$

-	
7	
	4.6 (Cn)
	L1.6.2)
	A.) 1095 K + 1095 Z = 1095 K.2 = 1095 2 K
	B.) 21095 K = 1095 K2
	C.) 10 95 14 - 1095 7 = 1095 (B)
-	U. (, 4)
	A.) [109 3 189] = [34 4 4 4 35] = 5
-	B.) L 109, 536] = L 109, 354x436] = 5
	(.) L 1093 2) = L 1093 (3° (AL3')) = 0
-	
3	
3	
-	
-	
-3	
3	
3	
3	
3	