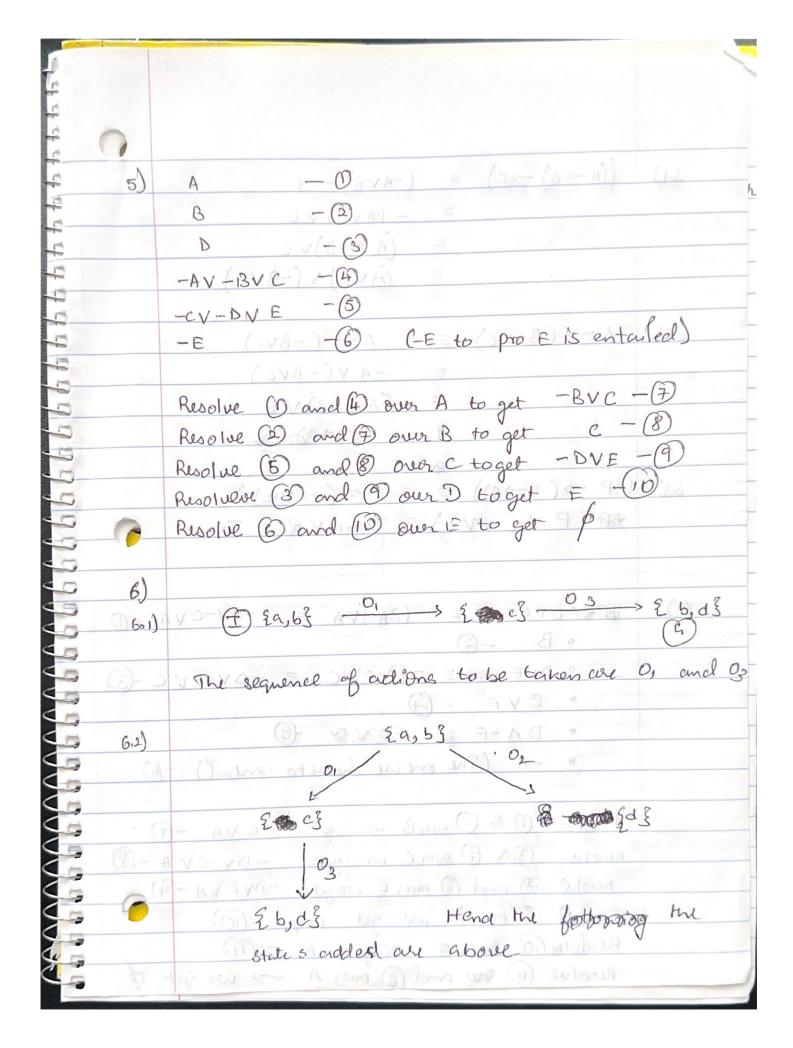
Problem Set 4 (580) P=> qvv 101) = -PVQVY PAQ =>Y = - (PAQ) Vr = -PV-QVY They are not logically equivalent. P=> QVI = -PVQVI 1.2) PA-9=>8 = -(PA-V)Vr = -PVVVr They born are logically equivalent. P=>qvn = -Pvqvr -PA 9=> 2 = - (-PAqi) V2 = PV-9 V2 They are not logically equivalent. P=>aVr= -PV9Vr -21P=>9= - (-21P) VQ = 2V-PV9 = - PVQVI They are logically equivalent. (1.5) (P=>(9=>1)) = P=> (-9Vr) = -PV-9Vr PAQ => r = -(Paq) Vr = -PV-QVr They both are logically equivalent.

N9-=106)	((P=>a) v (q=> 2)) = (-Pvq v -avr) = (=	(MADD)
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- Jr	PV-P = Tra	
77	Both are logically agrivalent.	
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201)	P=> QVr = -PVQVr P=> r=-	-PVr.
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	From me above truth table P=>r	
	not true at all times when P=>qvr	A. A.
	Hence P=> 9VVr does not entail P=	32
2.2)	From the above touth table P=>avvr	is
	always tone when P=>r Henel.	(8)
	P=>L = P=>. QVYLV9-)	
	Fire Comments on your and property	
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2,	2)	PSOVE 3	= -Pvvvh	= 11.09=	シルミー	avr	Pa)たヨーPVか
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3	6	(-PV9	(Vr) N (-9V	NA) 13.	trule	water	
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3.1)	$((A \rightarrow B) \rightarrow C) = (-A \vee B) \rightarrow C$
	= - (AVB) VC
	E (A N-B)VC
	= (AVC) \ (-BVC)
3.2)	A -> (B->c) = A -> (-Bvc)
	= -AV(-BVC)
- (F)-	- TVAMALLE ALGAVEBOVC MIGAR
(8)	E ZEBABOONO WILLIAM
(P)-	avan sport sour (a) supply
3.3)	(-P -> (P->Q)) = (-P-> (-PVQ))
	ER PV(-PVR) = TrueVR = True
4.5	Louis of and made. Then the made and the
	military that the transfer of and a first of and
4)3	BAC)VA = -BV-CVA-D
(5)	· B - ②
e and g	· DAE -X = - (DAE)VC = -DV-EVC-(3)
	· EVF - A
	· DA-F & -XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	· - A (The one we have to entail) - 6
2	Resolve O & Down B we get -c VA - F
	Resolve 3 & Dover C we get - DV-EVA-(8)
	Resolve (8) and (1) over E we get -DVFVA-(9)
Int	Resolve (9) over D we get FVA -(10)
	Resolve (1) over F we get A - (1) Resolve (1) over and (6) over A -> we get of
	Resolve (11) sto and (6) own A -> we get of



	•
7)	
(107	Or has a state of 2-6, c3 as the effect.
	Since our goal node & b, d3 does not have
H.	Ee3 as one of the its states, regression will
	not give any node
エン	de lease acte of 3-a-h de as the eller
72)	Our goal node has state variables 2 b, d3 which
	Can not be produced with 02 . Hence regressing
	a over or will not give us any node
7.3)	Regussing goal node our 03 can lead to
	multiple States. The ato only precondition
	being 203. Hence all status satisfying this can be reached.
	com be securities.
	2000, 26, 26, c, d3, 26, 26, 26, 26, 26, 26, 26, 26, 26, 26
	{c,d3, {c3
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