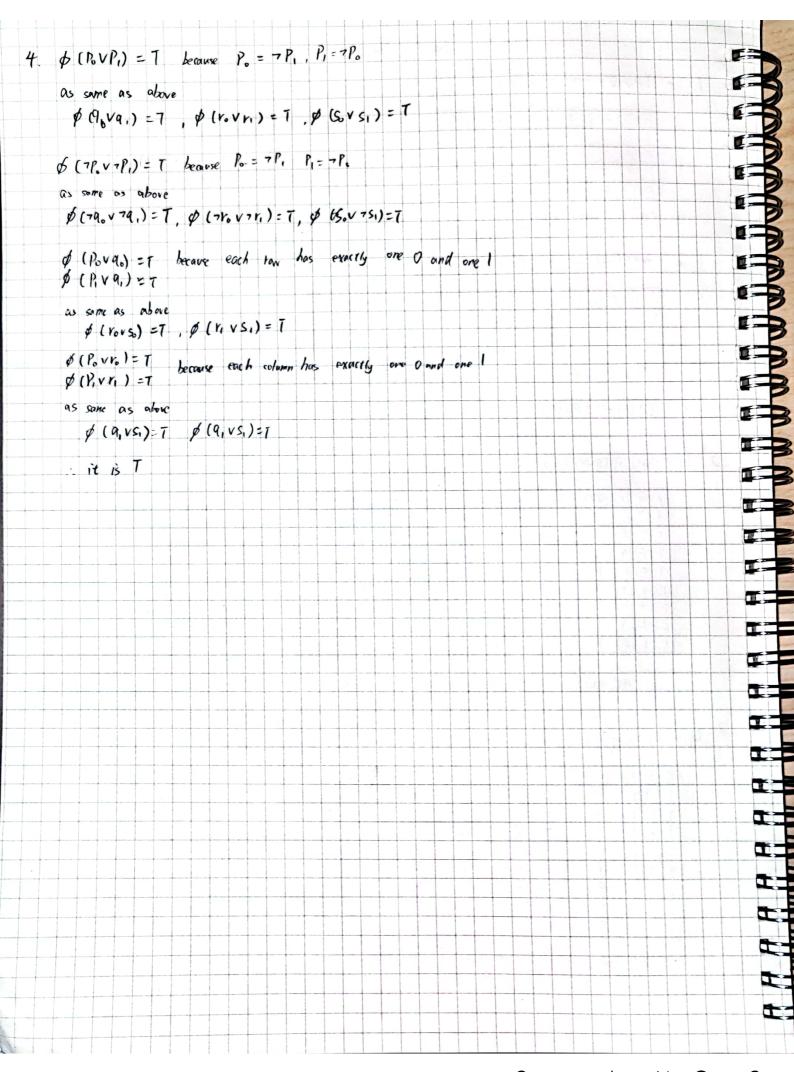
Exercise Sheet 5 Lo	egic .
1. • (PVQ) → (¬PAQ)	
PQ PVQ -P -PAQ (PVQ) (+PAU)	
FFFF T F	
$= (PVQ) \rightarrow (-PAQ)$	
=((PAU) - (PV Q))	
[P[Q] MQ [PQ] (PAQ) -> (PQQ) -> (PQQ))	
TFFTT	
T F T T T F	
= (PAQ) -> (PVQ)	
$= 2 (qVr \rightarrow p) \Lambda(q \rightarrow r) \Lambda_{7} r$	
pqrqvrqvrpqrtr(qvr->p)A(q->r)A	
TITIT T T F F	
T T F T T F T F	
FTTF F F T F	
F F T T F T F F	
FFFFTTTT	
not valid there are some = for this formula	
$= \frac{3}{2} \cdot (qvr \rightarrow p) v(q \rightarrow r) v \rightarrow r$	
=	
P q r qvr->p q->r 7r (qvr) ->p) v(q>r) v 7r	
TTFTTTT	
I T F T T T T T T T T	
FFFTTTT	
	n/a
it is valid thele are all 1 for 7715 16 tons	
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