Tegrado, Kennetl	n Renz A.	Exercise 3
CMSC 56		or Town and to proceed the
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Part A.		CTYPE A CONPU
1	N. Million Co.	TABAR
1) P	premise of the s	
2) P -> Q	premise	
3) S VR	premise	
4) R -~ Q	premise services	
5) Q	2,1 modus ponens	2 m 2 (22 gr)
6) ~A	4,5 modus tollens	- (1 × 1) . Y () + . (+ .)
7) 5	3, 6 Disjunctive Syllic	DUISM FILE CONTRACTOR
8). SVxt	7 Addition	Jan Miller
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1) (~p v Q) -	+ R premise	
2) R → (5 V)	•	
3) ~ \ \ ~ \	premise	
4) ~V → ~X	premise	
5) ~ U	3 Simplification	
6) ~X	4,3 Modrs Poners	
7) ~5	3 simplification	
8) ~ 51~ X	7,6 conjunctio	N
$a) \sim (s \vee x)$	8 De Morgan's	Low
10) ~R	2, 9 Modus Toll	lens
11) ~ (~ P v Q) INO MANUE TOI	
12) ~~ P ~~ G	11 De Morgan?	la law
13) ~~ P	12 Simplificat	ion
14) [P]	13 Double New	Kition
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Tegrado, Kenneth Monz A. CMX 56		Exercise 3 X-3L	3
Part B.			
I. [CPVQ) 1 CPV~W]	VQ	#	
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II. (P+Q) ~ [~Q ~ (R v~Q))] * /*/*/		
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(~p v Q) ^ ~ Q	material implication	23 18	
(~p^~Q) v (Q^~C	2) distributivity	3 mg 1 g	
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(~p^Q)	identity		
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