

Assignment 4

Justin Kim

2

81 ¢>>4

Φ	Ψ	$\phi \Rightarrow \psi$	4=>4	LP674
T	17	T	T	T
F	1	+	F	1
P	F	+ 1	T	T

$$(\rho) \ \varphi \Rightarrow (\rho \land \varphi)$$

9	Ψ	0	410	1 0 => (4 VO)
T	T	T	T	Т
Τ	T	F	Ť	<u> </u>
T	F	T	T	* T
F		T	T	T
T F	F	FF	F	F
F	T	F	I	I
F		1	1	
F	F	F	F	

lole φ⇒ (ΨΛΘ) then	
¢ ⇒ ψ is the and	\$30 bre
4 (4=4) N(4=6)	

4 14 174 174	1434	174 > 74_
TTFF	T	T
TFFT	F	F T
FFTT	1 1	T.
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

11 1 1 = 1 (74) = (74)

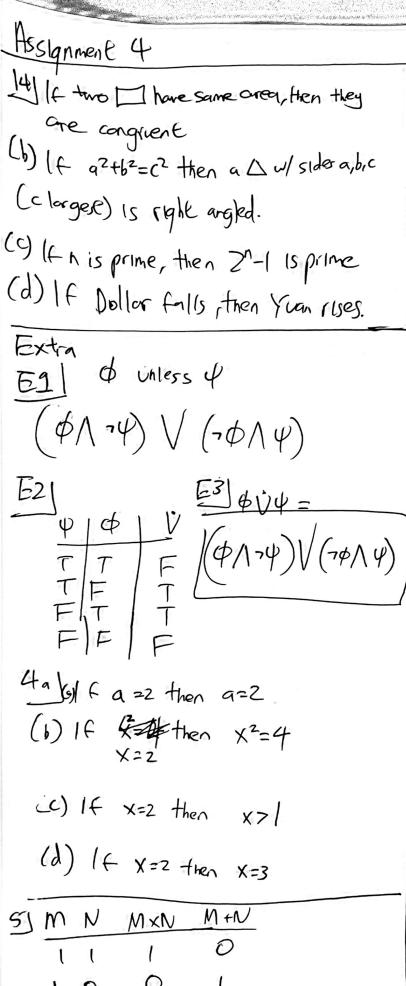
(a) (f two 1) don't have some over, Han they are not congruent.

(b) If 92+12+c2, then a & w/sides a, b, c(clorgs) is not be.

(c) If n is not prime, the 2n-1 isnot prime

a) If Dollar osses, then Yuan Fills

3				
ф	14	¢⇒4	14=	φ
T	T	T	LT	
T	F	E	F	$\geq$
F	T(	I	1	
F	F	T	7	



John Kim 3 61% (1) V (c) 16 ZA) All same 8) V>0 EX [巨] 74」 -9/m,n EN. Suppose mn is add then mn=29+1 For JeN. Then mn is not divisible by 2. So m and n is not divisible by 2 So man are odd. Now suppose min are odd. Then m=2j-1 & n=2k-1 mn = (2j-1)(2k+1)= 4jK-2j-2K+1 = 2(2jK-j-K)+1 Since ZSK-j-KEN mm is odd Since mno 0 > mo 1 no 0 and med Aprol > rngl Statement is the

MnGE (=) mnGO

mnGO (=) mnGO

mnGE ( ) ncE

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