Muhammes Bilol		Terk		21010404047			BILLING		
1.) (a.)	2 11110000	9 11001100	10101010	9 10001000		PV (9/1)		19/1)	
	00000	9 1100-100	0-0-0-0	2 9900	79 00 1 1 00 1 1	202020202	9 0 1 1 1 0 1 1 1	(7p) / (79V7c) 0 0 0 0 0 1 1 1
	h fo	cyos				9 v = r)	erefore, t	his ex	prossion'

b .	P	9	r	r 9ur		PI	(9vr)) -(PA (qur))(
	11110000	1-00-100	10-0-0-0				~~~~~~	0000111	and deliberation of the second
	0 1 1 1 1 0 0 0 0	9 1 1 0 0 1 1 0 0	1 10 10 10 10	\$ 0000 P	79 00 1 1 0 0 1 1	~ 0 ~ 0 ~ 0 ~ 0 ~	79 77	(7P)V(79V7)	
ex		result	<i>s s</i>					Upefore, Hus	

2.) To prove a 'Avo' statement is true, both side of the statement must be true. Theefore, both (prave) and (praver) statements must be true. For left side of the 'AND' statement, at least one true is required to prove 'OR' statement is true. It is given that at least one of p, q and r is true so that left side of the 'AUD' statement must be true. For right side of the 'Aun' statement, at lost one time is required for the inverse of a condition is true, one false condition is required It is given that at least one of p, q and r is false. Therefore, (pugur) 1 (7pv7gv7r) statement must be tre when at loss) one of p, q and r is tree and one of p, q and r is folse when these three vorsalles have the some truth isle, one of the side of 'AND' statement must be false. Their fore, (PUGUE) 1 (7PU 79U7) statement conit be true when p, q and r is some truth value.

3, 1 Let g(x) = (and h(x) = 4, when c=0 and k-0)
fix) becomes; fix) = 0 +02. When this is simplified fla)
becomes, for = 0 which is not positive polynomial
Shocks on Three Pore, it is disproved that flat is always
positive if and only if there exist glal and his such that
Alx = 912 + h122.
4.) (a.) () An = 10,1) => A, U A, UA, UA, UA, WA, WA
(0,1) (0,1/2) (0,1/2) (0,1/4) (0,1/4)
$\frac{1}{1} = 0$, so $\frac{1}{12} > \frac{1}{2} > \dots > \frac{1}{12} > \frac{1}{2} > \dots > \frac{1}{12} > \frac{1}{2} > \dots > \frac{1}{2} > \frac{1}{2} > \dots > \frac{1}{2} > \frac{1}{2} > \dots >$
K-300 7 K-300
1 includes every number smaller than itself. Therefore,
$\int_{n=1}^{\infty} A_n = (0,1) \text{as proved.}$
(b) () An = \$\phi = \rangle A_1 \cap A_2 \cap A_3 \cap \cdots \cdots \cap A_2 \cdots \
(0,1) \((0,112) \((0,113) \) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
15m = 0 50 1 > 1/2 > 1/3 > > 1/2
k is infinite number so that every number has a number
smaller than stself. Therfore, PAn = \$ 15 proved.
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