0.	т ,	- 1					
X I	Truth	labl	e /				
	a	6	C	ab	ac	ab + ac	
	0	0	0	0	0	0	
	0	0	1	0	0	0	
	0	I	D	0	0	0	
	0	1	1	0	0	0	
	1	Ð	0	0	0	0	
		0	1	0	1	1	
	1	1	0	1	0	1	
	J	1	1	1		1	
	Truth To	ble 2					
	a	Ь	C	6+c	albtc)		
	V	0	0	0	0		
	0	D	1	1	0		
	0	J	0	1	0		
	0	1	1	1	0		
	1	D	0	0	0		
	1	0	1	1	1		
	1	1	0	1	1		
	J	J	-1	1	1		
	C 1	1	- 1		22 / /		
	Such +1	hat	ab t	ac is	oguivalen	t to albtc)	
Λ.	H .	.) . 0 . 0 . 1 .	. 1	.1 .	000000	86 to 1910 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
W 2						\$ 6 transistors (two AND gate	(1)
	71		11.4			descriptions (NO DD and a d	OR go
6	The exp	resion	UCB	tc) re	quives 24	transistors (one OR gate and	one A
) uch th	at /	W - W	W = 10	Tewer	transisters will be used.	
		6	N - 4/	V - UN			

	Truth Table 1.											
	a			atb	atc	(ath) (atc)						
	D	0	0	0	0	0						
	0	0	1	D	1	0						
	0	1	0	1	D	o						
	0	1	1	1	1	1						
	1	D	0	1	1	1						
	1	0	1	1	1	1						
	1	1	0	1		1						
		1	1			1						
6	Truth	Table	2									
(Carry)	0	6	C	bc	a-	- bc						
	0	0	0	0	0							
	0	0		0	0							
	0	1	O	0	0							
	0	1		1	1							
		O	0	0	1							
	1	0	1	D	1							
	j	1	D	0	1							
	1	1			1							
Q4	The	expression	l	a+b) can	re) re	quires 6.1 transistors. Ctub Of	R					
	The	expression	a	(btc)	requires	And one AND gate) If transistors (one AND gate) one OR gate) ransistors will be used.	and					
		1	1 11 1111	-24/	V	one OD and						

