## **Pre-lab Part 3 Truth tables**

c3	c2	c1	^								
		CI.	c0	HEX0	HEX1	HEX2	HEX3	HEX4	HEX5	HEX6	Character
0	0	0	0	0	0	0	0	0	0	1	0
0	0	0	1	1	0	0	1	1	1	1	1
0	0	1	0	0	0	1	0	0	1	0	2
0	0	1	1	0	0	0	0	1	1	0	3′
0	1	0	0	1	0	0	1	1	0	0	4
0	1	0	1	0	1	0	0	1	0	0	5
0	1	1	0	0	1	0	0	0	0	0	6
0	.1	1	1	0	0	0	1	1	1	1	7
1	0	0	0	0	0	0	0	0	0	0	8
1	0	0	1	0	0	0	1	1	0	0	9
1	0	1	0	0	0	0	1	0	0	0	A
1	0	1	1	1	1	0	0	0	0	0	b
1	1	0	0	0	1	1	0	0	0	1	С
1	1	0	1	1	0	0	0	0	1	0	d
1	1	1	0	0	1	1	0	0	0	0	E
1	1	1	1	0	1	1	1	0	0	0	F

K-map for Hex0						
c1'c0' c1'c0 c1c0 c1c0'						
c3'c2'	0	(1)	0	0		
c3'c2	1	0	0	0		
c3c2	0	1	0	0		
c3c2'	0	0	(1)	0		

K-map for Hex1						
	c1'c0' c1'c0 c1c0		c1c0'			
c3'c2'	0	0	0	0		
c3'c2	0	1	0	(1)		
c3c2		0		1		
c3c2'	0	0	1	0		

## **Pre-lab Part 3 Truth tables**

K-map for Hex2						
	c1'c0'	c1'c0	c1c0	c1c0'		
c3'c2'	0	0	0	1		
c3'c2	0	0	0	0		
c3c2	1	0	1	<b>(</b> )		
c3c2'	0	0	0	0		

$$\frac{1}{2^{1}}$$
  $C_{3}C_{1}C_{1} + C_{3}C_{1}C_{0} + \overline{C_{3}C_{1}C_{0}}$ 

K-map for Hex3						
	c1c0'					
c3'c2'	0	1)	0	0		
c3'c2	(1)	0	(1)	0		
c3c2	0	0	1/	0		
c3c2'	0	(1)	o	<b>(1)</b>		

$$\frac{C_{1}C_{1}C_{0} + C_{2}C_{1}C_{0} + C_{3}C_{1}C_{0} + C_{3}C_{1}C_{0}}{C_{2}C_{1}C_{0} + C_{3}C_{1}C_{0}} =$$

K-map for Hex4						
	c1'c0' c1'c0 c1c0					
c3'c2'	0	1	1	0		
c3'c2	1	1	1_	0		
c3c2	0	0	0	0		
c3c2'	0	1	0	0		

$$\overline{C_1 C_2 C_3} + \overline{C_3 C_0} + \overline{C_1 C_0}$$

K-map for Hex5						
	c1'c0'	c1'c0	c1c0	c1c0'		
c3'c2'	0	1		1		
c3'c2	0	0	1	0		
c3c2	0	(1)	0	0		
c3c2'	0	0	. 0	0		

$$C_3C_2C_0 + C_3C_1C_0 + C_3C_2C_1 + C_3C_2C_1C_0$$

K-map for Hex6						
	c1'c0'	c1'c0	c1c0	c1c0'		
c3'c2'		1)	0	0		
c3'c2	0	0	1	0		
c3c2	(1)	0	0	0		
c3c2'	0	0	0	0		