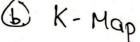
## CSC 137 - HWK #3

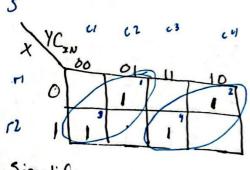
1. Design a single cell - 1 bit Carry propagate (Ripple Carry Adder) full adder.

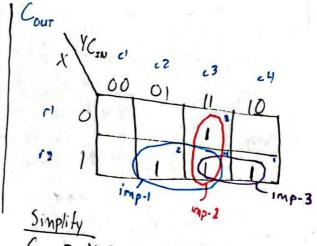
(1) 1	O	
a Generate	Truth	Table

1			-	
X	Y	CIN	15	Cour
0	0	0	0	0
0	. 0	1	1	Ó
0	1	0	1	Ò
1	0	0		
1	1	0		Ò
1 0	0	4	0	1
	1	0	0	- 1
	_ 1	1		-
V N			1	1

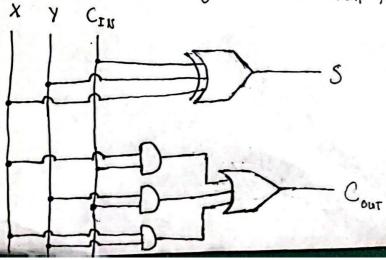
-> Logical	Expr:		
5= x y c	IN + XY	CT + X 9	<u>-</u>
S= x y C	2	+ ×45	IN
Cout = XY CIN	XYCIN	+ X YCIN	+ ×4 C+0
2.4	r2 c2		1203

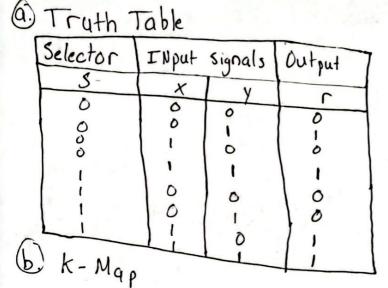




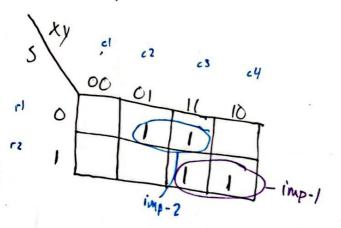


Schematic Diagram For full Adder:





	Logical Expression
L=	3 x y+3xy+sx y +sxy



$$-5 \frac{\text{Simplify}}{\text{imp-2}} = \frac{1}{5} \frac{1}{1} + \frac{1}{5} \frac{1}{1}$$

C Create Schematic Diagram for Mux

