

# Pre-Lab Submission Page

Half adder truth table

A	B	C	S	Decimal
0	0			
0	1			
1	0			
1	1			

Full adder truth table

$C_{in}$	A	B	$C_{out}$	S	Decimal
0	0	0			
0	0	1			
0	1	0			
0	1	1			
1	0	0			
1	0	1			
1	1	0			
1	1	1			

2-bit adder truth table

$C_{in}$	$A_2A_1$	$B_2B_1$	$C_{out}$	$S_2$	$S_1$
0	00	00	0	0	0
0	00	01			
0	01	01			
0	10	01			
0	10	10			
1	10	10			
1	11	11			

Decimal equivalent

$C_{in}$	A	B	Out
0	0	0	0
0	0	1	