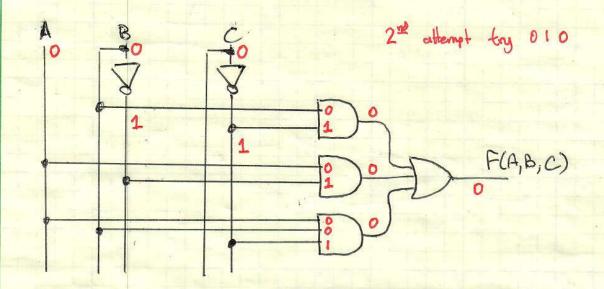
Elementary Legic Functions

I worker	MVA	OR.	XX	Not.	
word Stutoment	that equals 1 when All mosts equal 1	N-inputs I author that equals I unput equals I, clie of	2 inputs I output that equals I when imputs are different, else of	1 input Leutpul that does not equal the input	
Symbolic	A*B	A+B	A @ B	A 1	
Truth Table	A B A B O O O O O O O O O O O O O O O O	AB A+B 0 0 1 1 0 1 1	A B A0B 0 0 0 1 1 0 1 1	A - A'	
Circuit Diagram		1	-JD-	->-	

O Circuit Diagram -> Troth Table



Observations

- 1. Gates may have different # of imposts
- 20 lines represent wire
- 3. Logic levels propagate instantly on wire
- 4. Black dots indicate connection blow wines
- 5. Crossing weres with no dot are not connected
- 6. Outpots are not connected together
- 7. Inpots most be tied to a synal source
- 8. An output can drue the input of many gates

Step 1
Thentify
Inputs 8
Outputs

A,B,C:

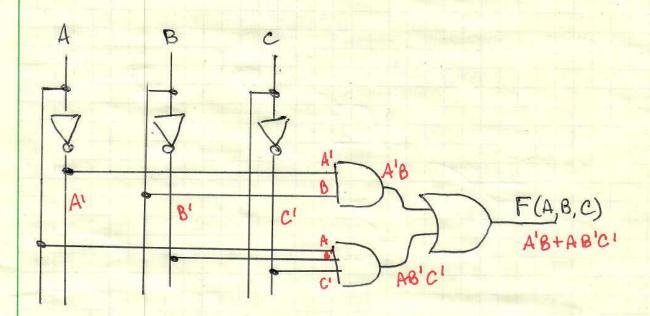
F

2			1 - 5	
lede 6	A	B	C	FLA.
a shell	9	0	0	0
e	0	0	l	0
	0	1	0	- 1
	0	1	1	0
	1	0	0	1
		0	1	1
	- (1	0	1
	1	ı	1	0
				1

Evaluate

apply input
compute output for
each gate entil
you reach output

@ Circott Diagram to Symbolic



- e Flow inputs to output
- · Gate output is computed when all imports have values