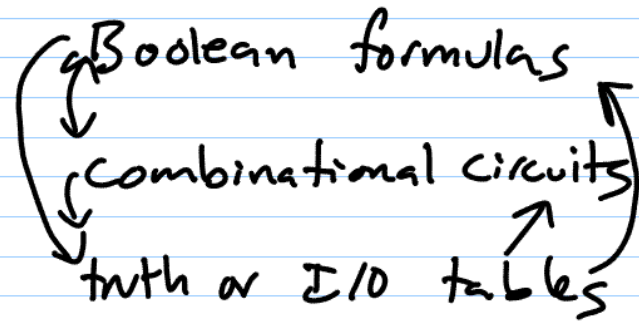
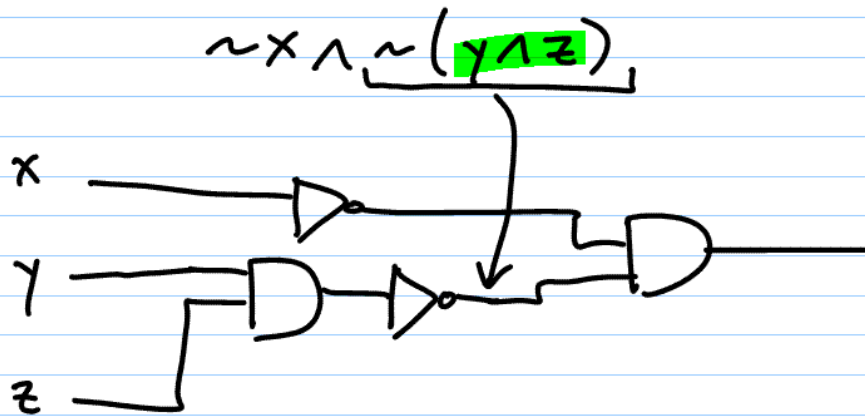
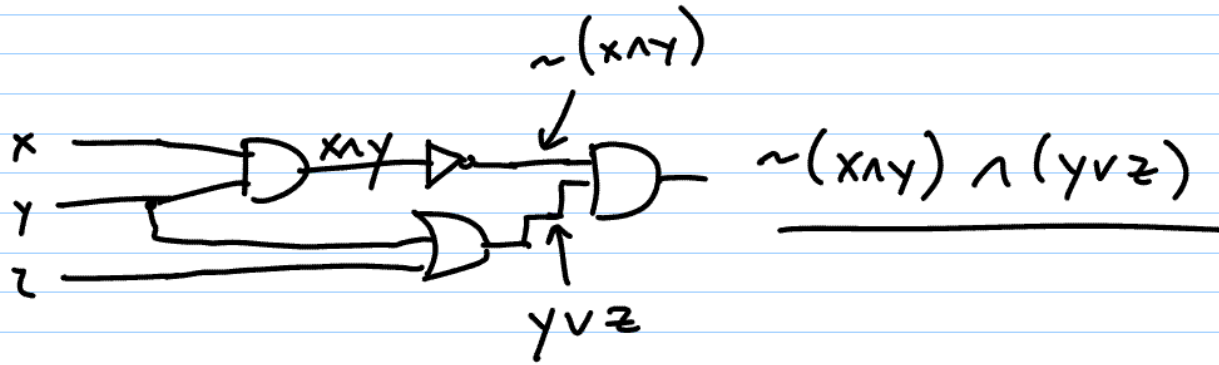


x	y	z	output
1	1	1	00
1	1	0	00
1	0	1	...
1	0	0	...
0	1	1	...
0	1	0	...
0	0	1	...
0	0	0	...





	x	y	z	output
→	1	1	1	0
→	1	1	0	1
	1	0	1	0
	1	0	0	1
	0	1	1	1
	0	1	0	0
	0	0	1	0
	0	0	0	0

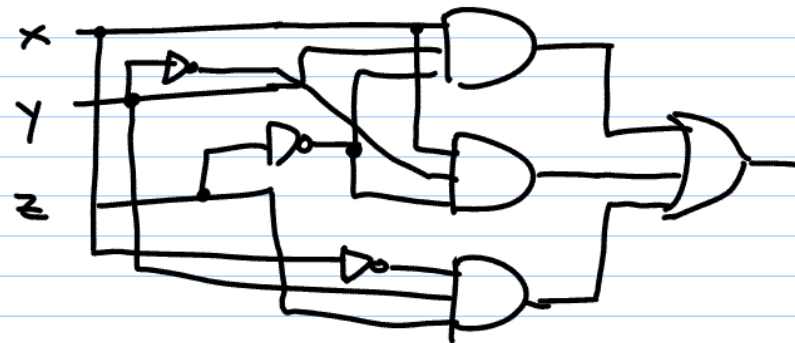
$x \wedge y \wedge \neg z$

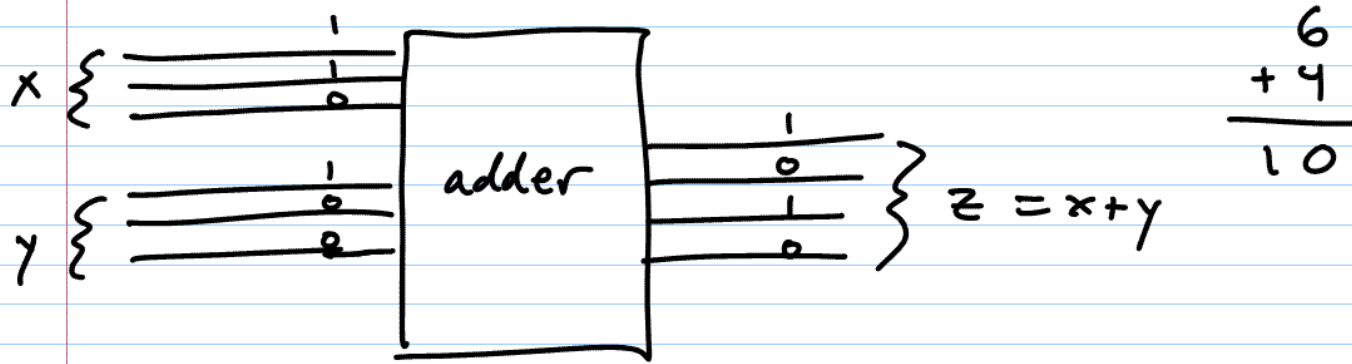
$x \wedge \neg y \wedge \neg z$

recognizer:

circuit with output  
on for exactly

1 combo of inputs





$$\begin{array}{r} 37 \\ \hline 100 \quad 10 \quad 1 \end{array} = 3 \cdot 100 + 7 \cdot 10 + 1 \cdot 1$$

$$\begin{array}{r} 1 \quad 0 \quad 1 \quad 0 \quad 1 \quad 1 \quad 0 \quad 1 \\ \hline 128 \quad 64 \quad 32 \quad 16 \quad 8 \quad 4 \quad 2 \quad 1 \end{array} = 1 + 4 + 8 + 32 + 128 = 173$$

$p \rightarrow r$   
 $q \rightarrow r$   
 $p \vee q$   
 $\therefore r$

$p$	$q$	$r$	$p \rightarrow r$	$q \rightarrow r$	$p \vee q$
T	T	T	T	T	T
T	T	F	F	F	F
T	F	T	T	T	T
T	F	F	F	F	F
F	T	T	T	T	T
F	T	F	T	F	F
F	F	T	T	T	T
F	F	F	T	F	F

← know already this is not a critical row, don't need to complete