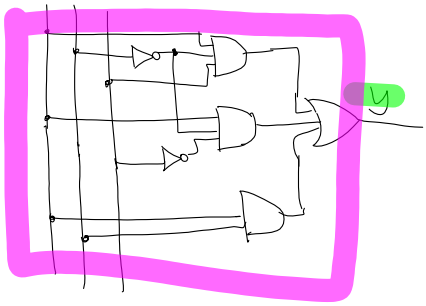
$y = \overline{A}\overline{B}C + A\overline{B}\overline{C} + AB = A\overline{B}(C+\overline{C}) + AB = A\overline{B} + AB = A(\overline{B}+B) = A \cdot 1 = A$



A	B	C	$\overline{B}$	$\overline{C}$	$A\overline{B}C$	$A\overline{B}\overline{C}$	AB	y
0	0	0	1	1	0	0	0	0
0	0	1	1	0	0	0	0	0
0	1	0	0	1	0	0	0	0
0	1	1	0	0	0	0	0	0
1	0	0	1	1	0	1	0	1
1	0	1	1	0	0	0	0	0
1	1	0	0	1	0	0	1	1
1	1	1	0	0	0	0	1	1

$y = \overline{\overline{A}\overline{B}C} + \overline{\overline{A}+C} =$ (De Morgan)

$\overline{zx} = \overline{z} + \overline{x}$ $\begin{cases} z = \overline{AB} \\ x = C \end{cases}$ $\overline{AB} + \overline{C}$

$\overline{z+x} = \overline{z} \cdot \overline{x}$ $\begin{cases} z = \overline{A} \\ x = C \end{cases}$ $\overline{A} \cdot \overline{C}$

$y = \overline{AB} + \overline{C} + \overline{A} \cdot \overline{C}$

$y = AB + \overline{C} + A\overline{C}$

$y = AB + \overline{C}(1+A)$

$y = AB + \overline{C}$

A	B	C	