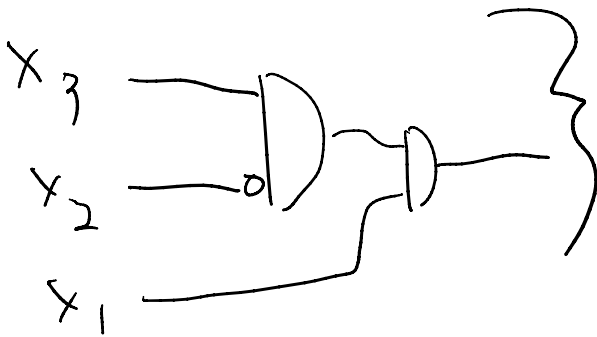


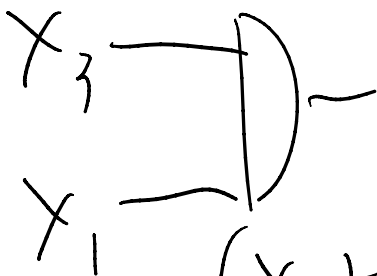
Q1

Thursday, October 1, 2020

10:58



this makes
the above ~~clutter~~ irrelevant, as
regardless of $x_2, x_3, x_1 \Rightarrow \text{true}$



$$(x_3 + \bar{x}_2 + x_1) + (x_3 + \bar{x}_2 + \bar{x}_1)$$

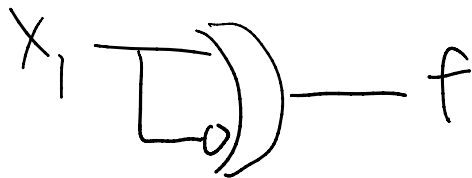
$$= x_3 + \bar{x}_2 + x_1 + x_3 + \bar{x}_2 + \bar{x}_1$$

$$= x_3 + \bar{x}_2 + x_1 + \bar{x}_1$$

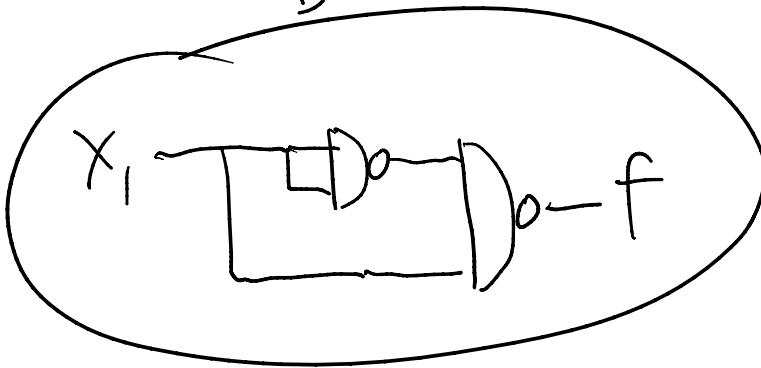
$$= x_3 + \bar{x}_2 + 1$$

$$= 1$$

Regardless of the value of x_1 ,
circuit will output 1.



De Morgan's



$$f = \overline{x_1 \cdot \overline{x_1}} = 1$$