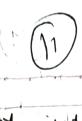
Camlin Page > Fault-Suppose there is a fault due to which -: If I=0, y=1 input is given by user then

x=0, y=0 will be to input that would be goingto Corcint. How to delect whether on " and" you has a fauly due to which y is stuck at O Give Input 2=1 and y=1. Youlput is 0, then fault - To test fault - input should be as such that the output in Tose of foult and no foult are different from each other. Jis thick at ON (2) How to delet it $xor - xy = 00 \Rightarrow 0, 01 \Rightarrow 1; 10 \Rightarrow 1; 11 \Rightarrow 0$ Let y be stuck of 0. y=1, x=0 -> Trushelps to delet fould



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Complementation faultlest input
This means whatever the user input is, the complime, of that would be passed to the system.

Suppose- AND gate - complementation fault at y

Suppose x=0

ond wer pars y=1

then Output = 0; expected output = 1

User parts y = 0User parts y = 0User parts y = 0

: To delet complementation fault at y in AND gate, z=1, y = anything.

XOR: Complementation at y.

Therefore this can be deleded for any example of 2 andy.

Foult Locate - Where is the fault when it is known there is foults.

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Camin Faga Bernitted Instructions ilo ← - number se-ib te-ib ilo €- 8+t -, x, / Similor a <- ile ile €- a print (ib) MR = memory real => b <-[a]

MW = memory wint => [a] <- b Subsore we want to Hor 2 at memory address=42 than 16€-42 sagistes a c a € - ib contains to oddress ib €-2 10 <- ib rojistes b MW contains to volue 'a' is also called MAR = memory ser segista MBR = Legistes buffer a, le de general purpose regulos also put por memor a and to oct as memory registers C to outs as pc ile <- PC is valid



+ + =0R ; '= AND ; '= NOT Booken exp. bus for xy=1000y= xy 1) Due for 2y=00 and 2y=11 = xy + xy Sum of product for Another Possible Ams -1 Product of Sum form $\Rightarrow ((x+y) \cdot (x'+y'))'$ Another on Ξ (2+y). (2+y) (ii) SOP form; True for xyz = 010; 110 Ans = 43 C: x con be anything W) True for eyz = 010 00; 110 and 11/ $\begin{array}{c} \Rightarrow 010 + 110 + 111 \\ \Rightarrow 010 + 110 + 110 + 111 \\ \Rightarrow 10 + 11 = \\ \Rightarrow y3' + xy \end{array}$ * Peroove = [a+a'b = a+b $a + (a'b) = (a+a') \cdot (a+b)$ = a+b

Camlin Page is a and to we sets, then Intele 3 a-6 = a.6 @ = a AND (NOT & 6) bus mounts with the word was