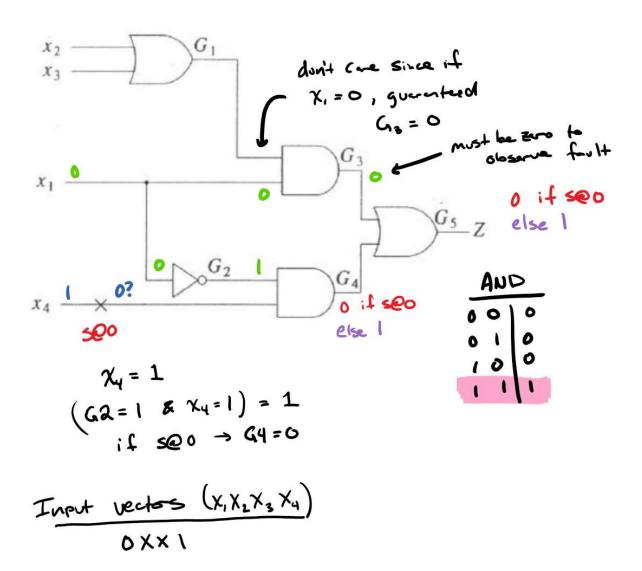
ECE 581 Homework 4

Chuck Faber

Problem 1.

For the following circuit, use the path sensitization approach, derive all the possible input patterns for detecting s-a-0 at x₄.

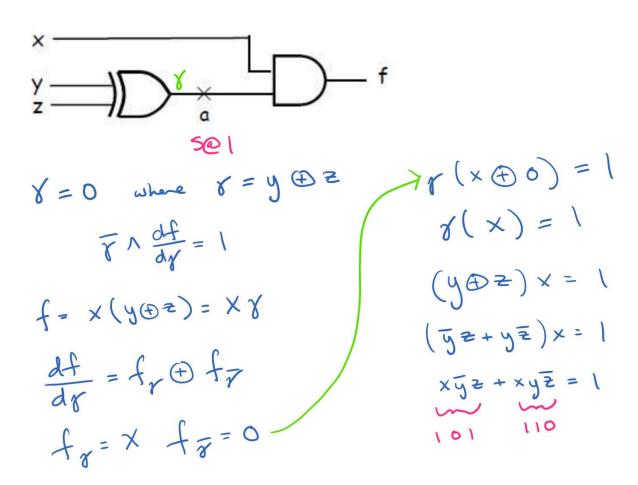


Possible Input Vectors for detecting s-a-0:

 $\{x_1, x_2, x_3, x_4\} =$ 0001
0011
0101
0111

Problem 2.

For the following circuit, use the Boolean difference method to determine all the input test vectors to detect the s-a-1 at a.



Input Vectors to test for s-a-1:

 ${x,y,z} =$

101

110