ECE 322
Assignment 2

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1 Credit Union

Conditions	what the fuck
male AND city dweller	
male AND age < 25	
female AND $25 <$ age < 65 AND NOT city dweller	
NOT (male AND age > 65)	

Actions
Show Product A
Show Product B
Show Product C
Show Product D

a) Maximal number of rules

b)

2

For the given subdomain, the following lines form the boundaries:

- $y = 5, 0 \leq x \leq 7$

- $x = 0, 0 \leq y \leq 5$

- $y = -x, 0 \leq x \leq 1$

- $y = x - 2, 1 \leq x \leq 7$

a)   EPC Strategy

From the boundary lines, we see that the maximum value that x can have is 7, its minumum is -1, and that the maximum value that y can have is 5 while its minumum value is 0. Using the EPC testing strategy, $4^2 + 1 = 17$ test cases are expected. The extreme points chosen are $(7, 7.1, 0, -0.1)$ for x, and $(5, 5.1, 0, -0.1)$ for y. For the additional test case within the boundary, $(x = 1, y = 1)$ is chosen. The full list of test cases is found below:

test id	x	y
1	7	5
2	7	5.1
3	7	-1
4	7	-0.1
5	7.1	5
6	7.1	5.1
7	7.1	-1
8	7.1	-0.1
9	0	5
10	0	5.1
11	0	-1
12	0	-0.1
13	-0.1	5
14	-0.1	5.1
15	-0.1	-1
16	-0.1	-0.1
17	1	1

3   Cause-Effect Graph

4   Combinatorial Testing