Daniel Delgado Acosta
Andrew Goldbaum
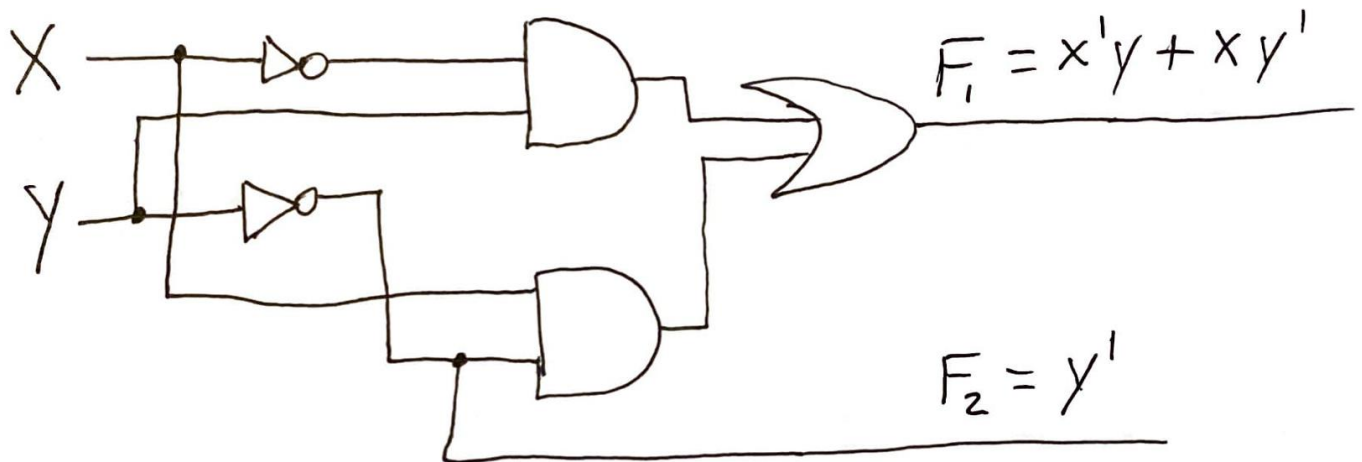Eric Duong
4/10/2022

Lab 8: Build a Counter

Objective: In this experiment the student will design and build a counter which will count from 0 to 3 than back to 0.

Provided: 1 7404 chip, 1 7408 chip, 1 7432 chip, breadboard.

X	Y	F_1	F_2
0	0	0	1
0	1	1	0
1	0	1	1
1	1	0	0

$$F_1 = X \oplus Y = \underline{X'Y + XY'}$$

$$F_2 = X'Y' + XY' = Y'(X' + X) = \underline{Y'}$$

$$F_1 = X'Y + XY'$$

$$F_2 = Y'$$

Everything Checks Out ✓