

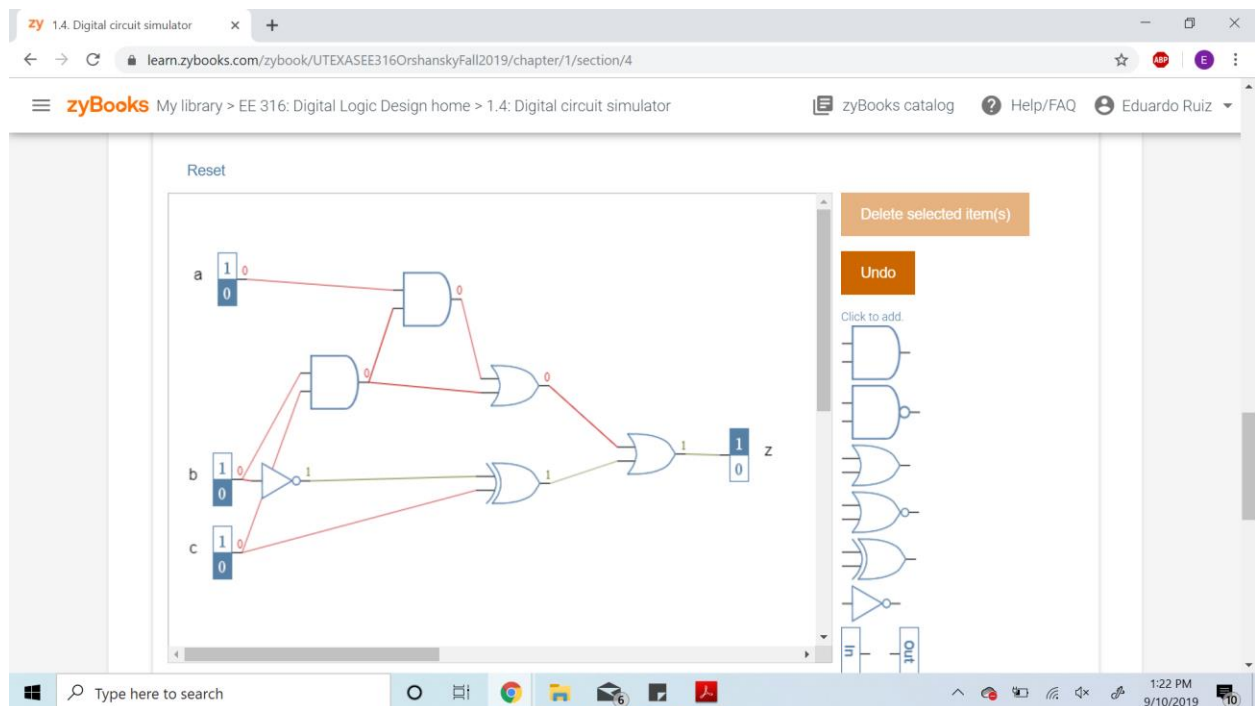
1a)

X	Y	Z	F
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

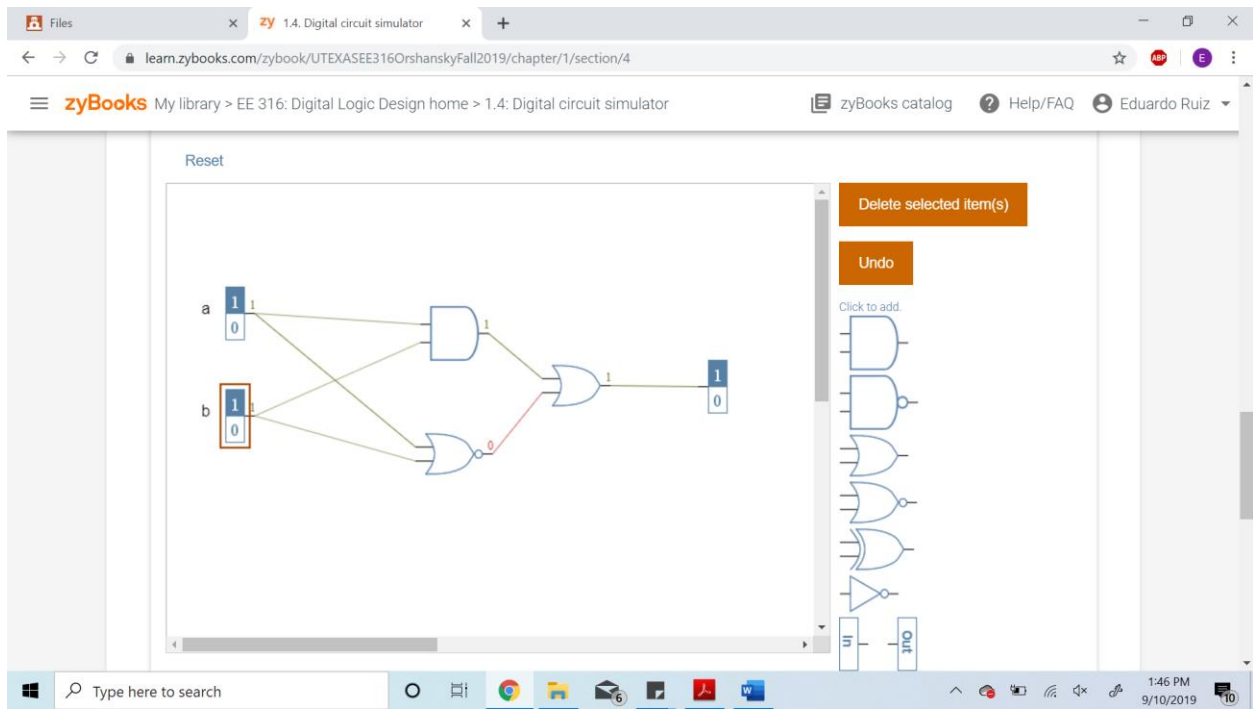
1b) $X'Y'Z' + X'YZ + XY'Z' + XYZ$

1c)

- $Y'Z'(X' + X) + YZ(X' + X)$ (Distributive Law)
- $Y'Z'(1) + YZ(1)$ (Compliment Law)
- $Y'Z' + YZ$ (Identity)



2)



$$Y'Z' + YZ$$

$$(Y+Z)' + YZ \quad \text{DeMorgan's Law } (a + b)' = \text{NOR}$$