

a)

Tc >= Tpcq + Tpd(max) + Tsetup

Tc >= Tpcq + 3*Tpd + Tsetup

Tc >= 70 + 3*60 + 60 = 310ps

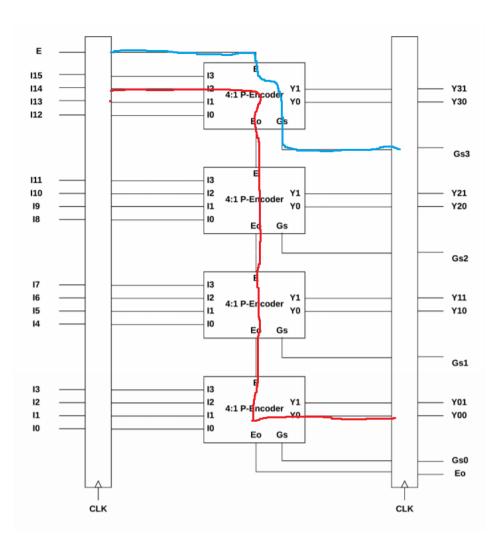
Max Frequency = 1s/T = 1/(310ps) = 3.226 GHz

b)

Tccq + Tcd(min) >= Thold + Tskew

50 + 0*40 >= 20 + Tskew

Tskew <= 30



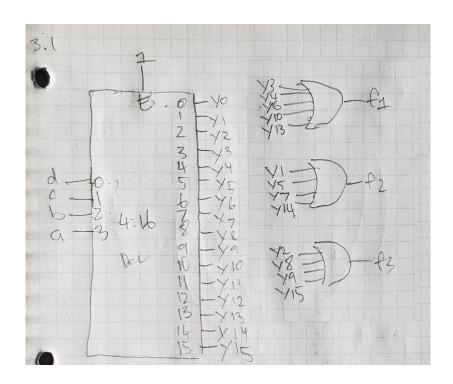
a)

Max Frequency = 1s/T = 1/(160ps) = 6.25 GHz

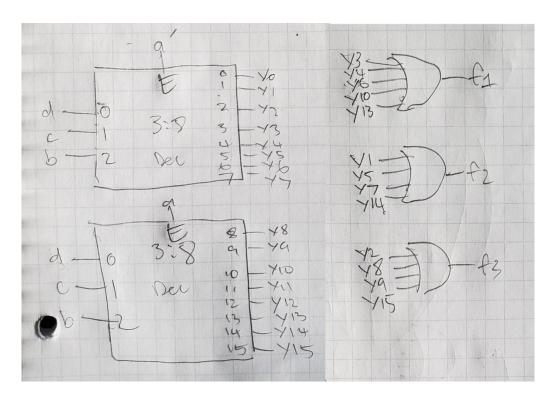
b)

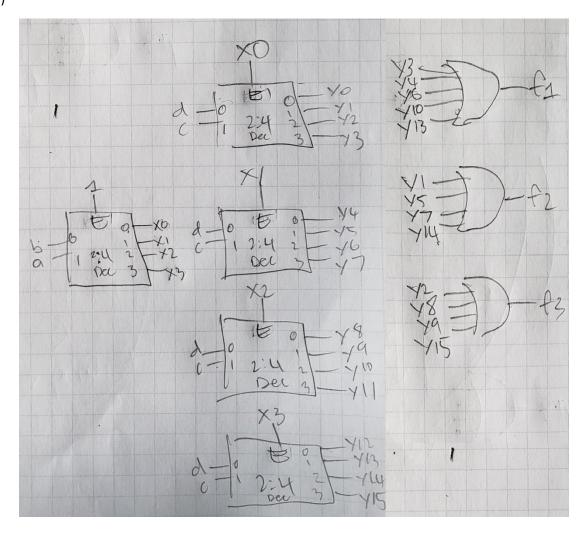
Tskew <= 25

3.1)

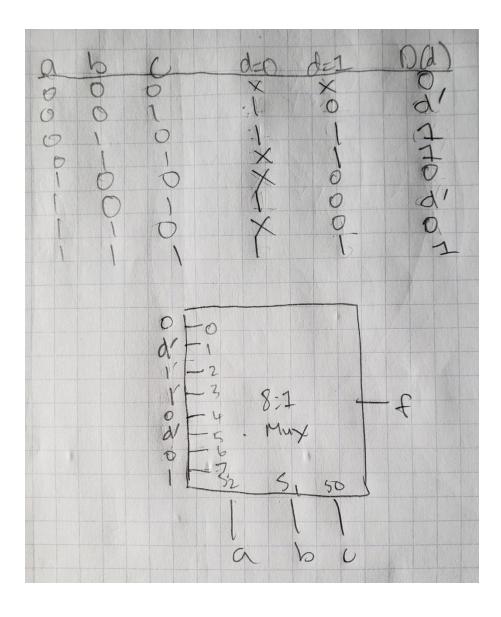


3.2)

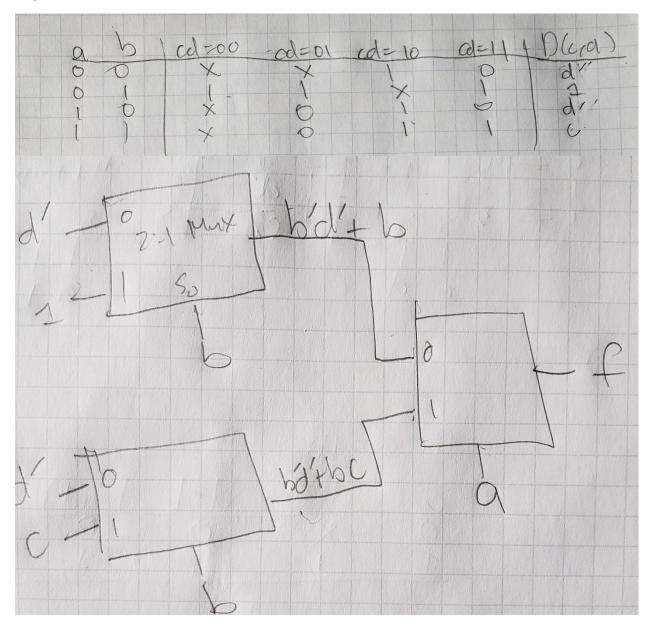




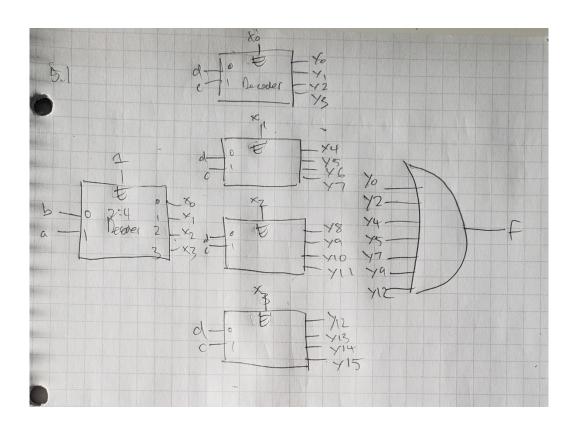
4.1)



0001	cd=00 - X X	00=01 X	ed=10	al=11 4	D(cca)
d'	4:1 miny				
	20				



5.1)



5.2)

