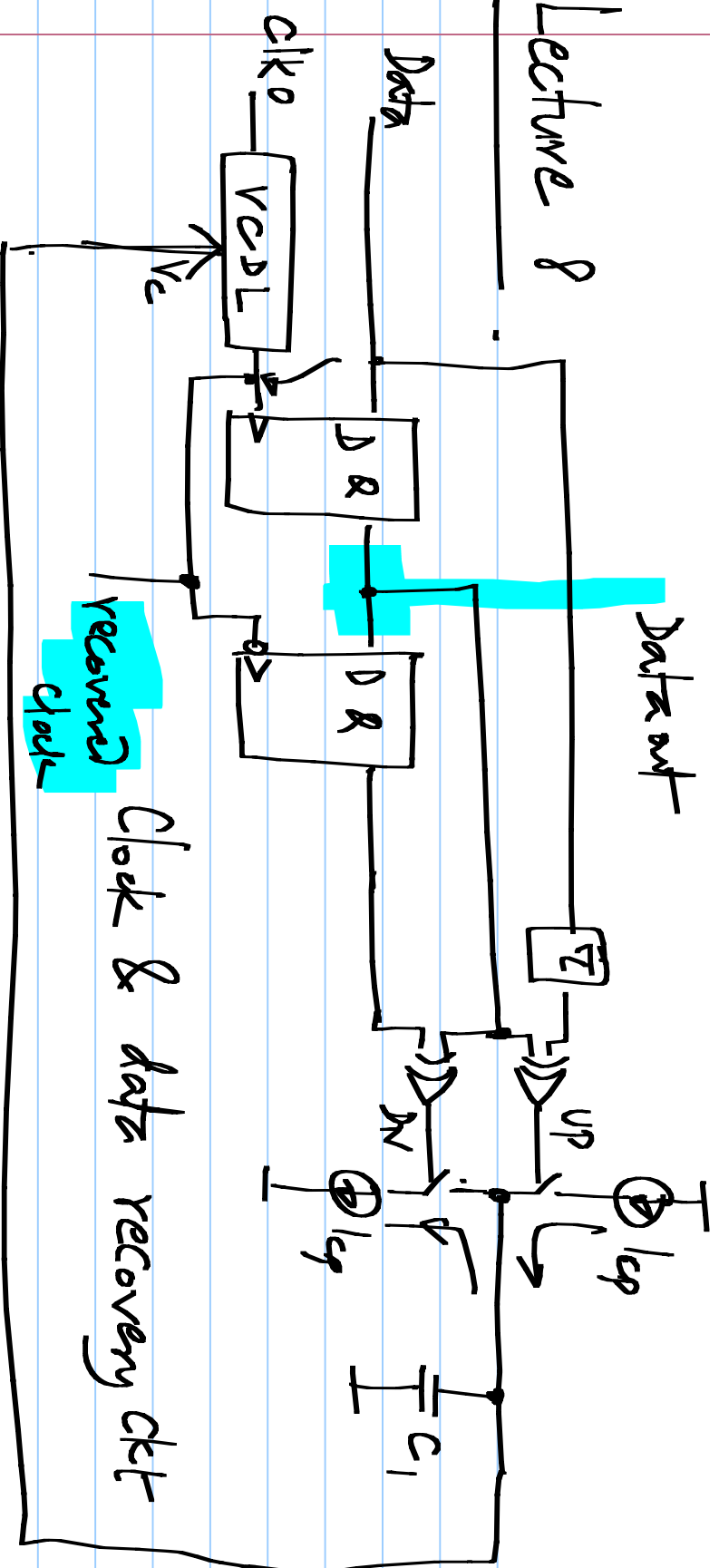
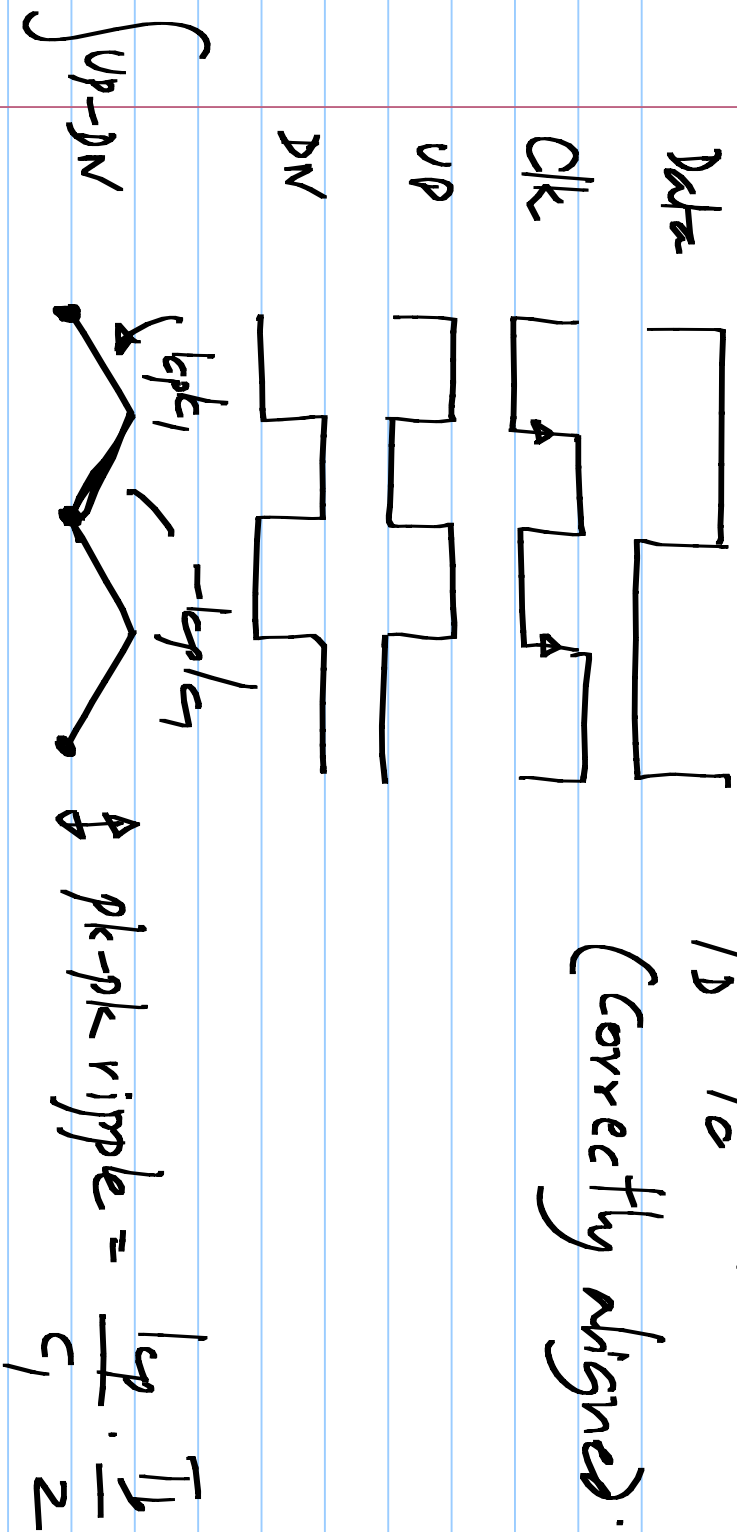


Lecture 8



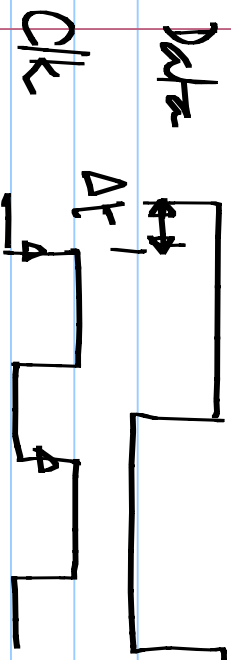
$$\phi_D - \phi_a = \pi$$

(Correctly signed).

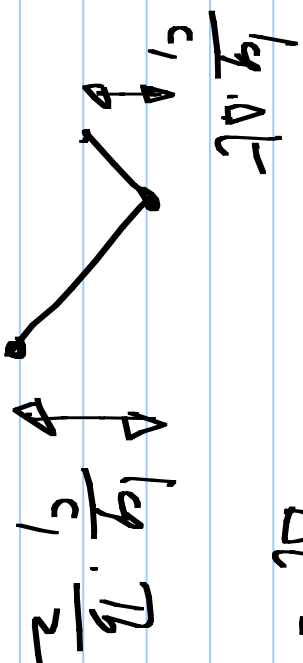
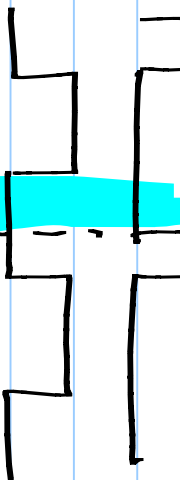


$$\phi_D - \phi_C = \pi/2$$

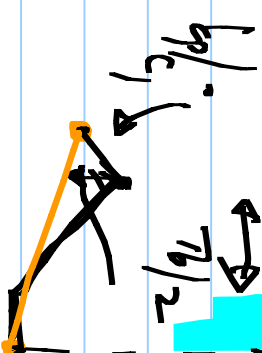
$$\Delta t = \frac{\phi_D - \phi_C}{2\pi} \cdot T_b$$



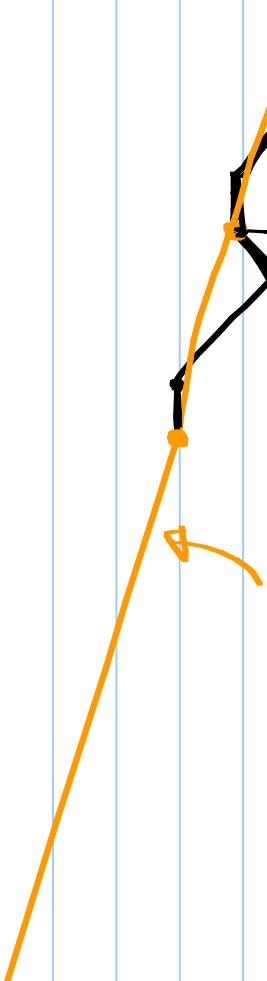
DN



$\int UP-DN$



$$\propto \phi_D - \phi_C$$



Data



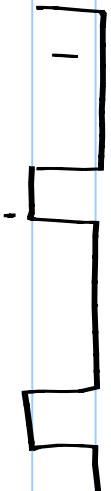
$$\phi_D - \phi_c = 3\pi/2$$

Clock

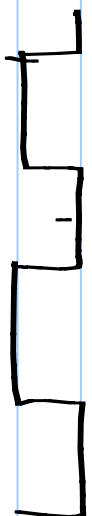


(Correctly aligned)

UP



DN

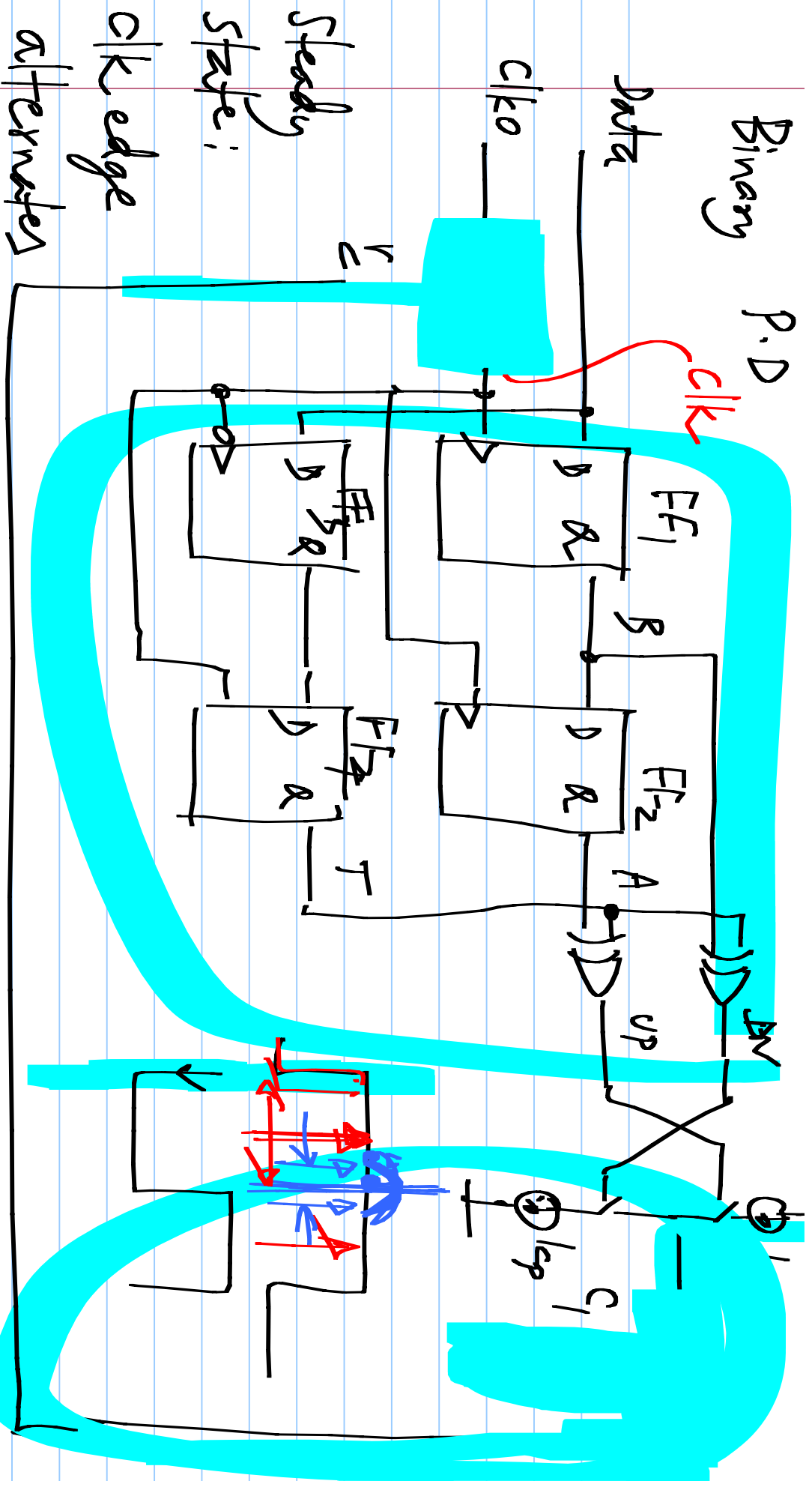


$\int UP-DN$

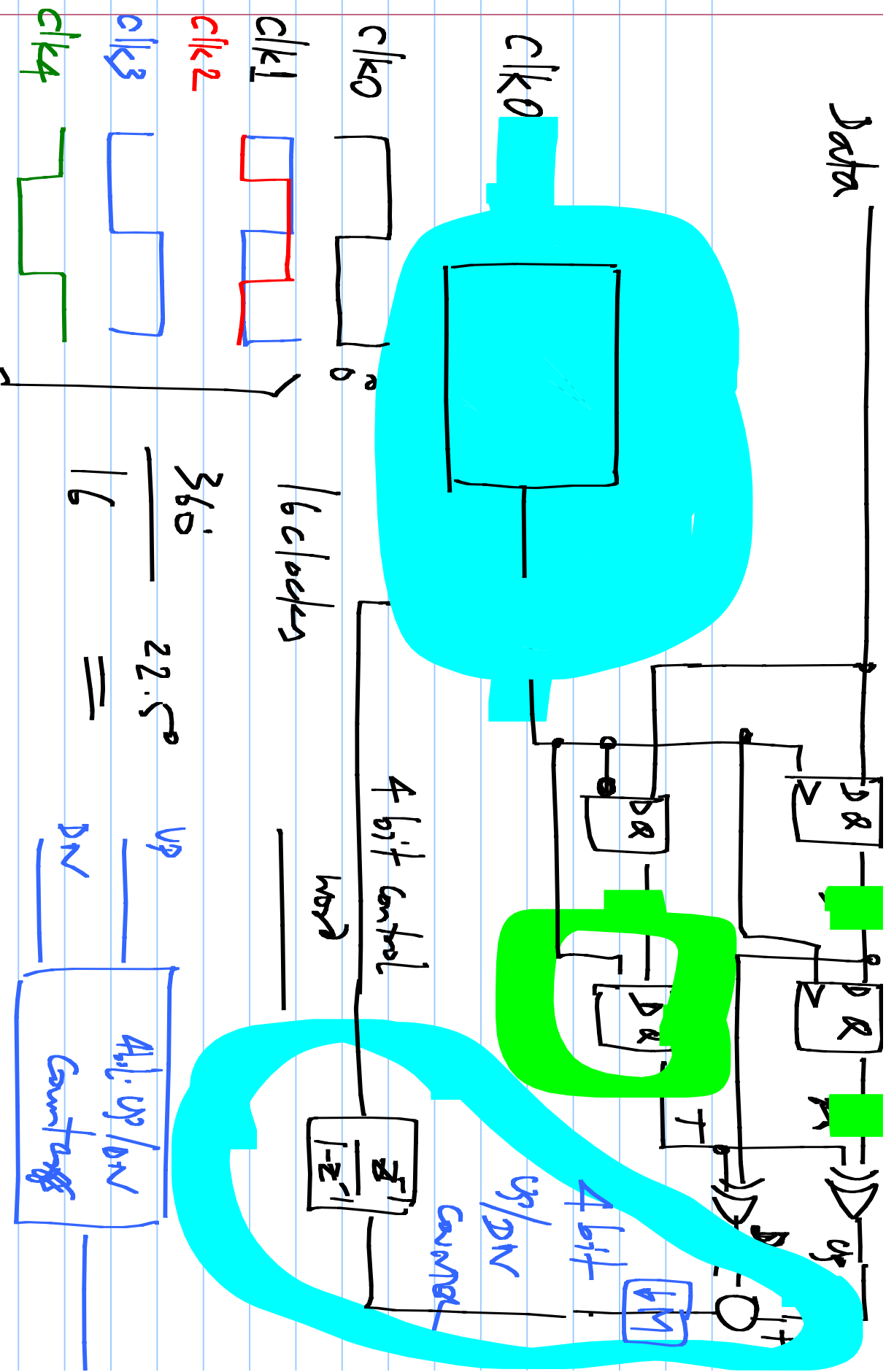


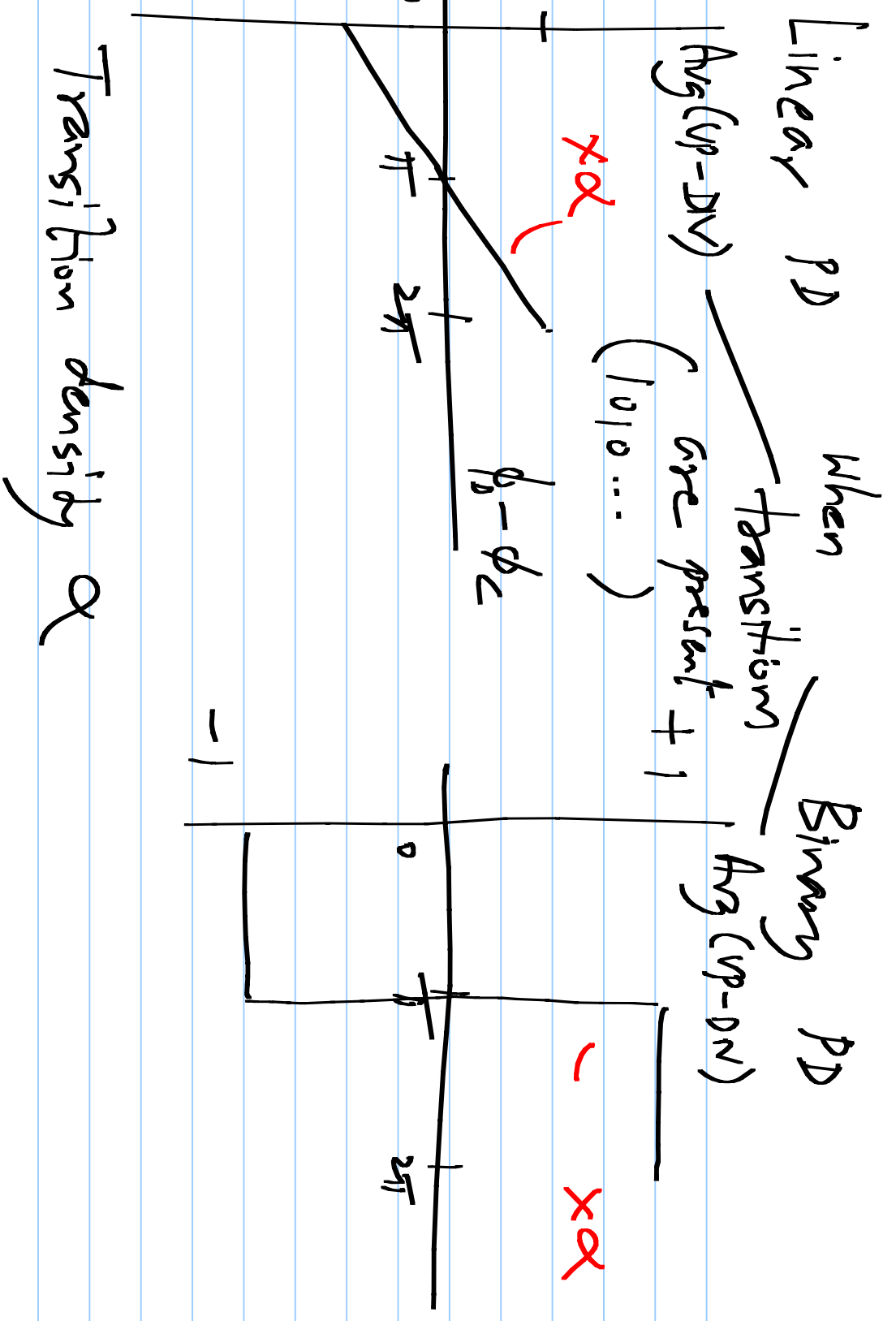
Slope $\propto (\phi_D - \phi_c)$

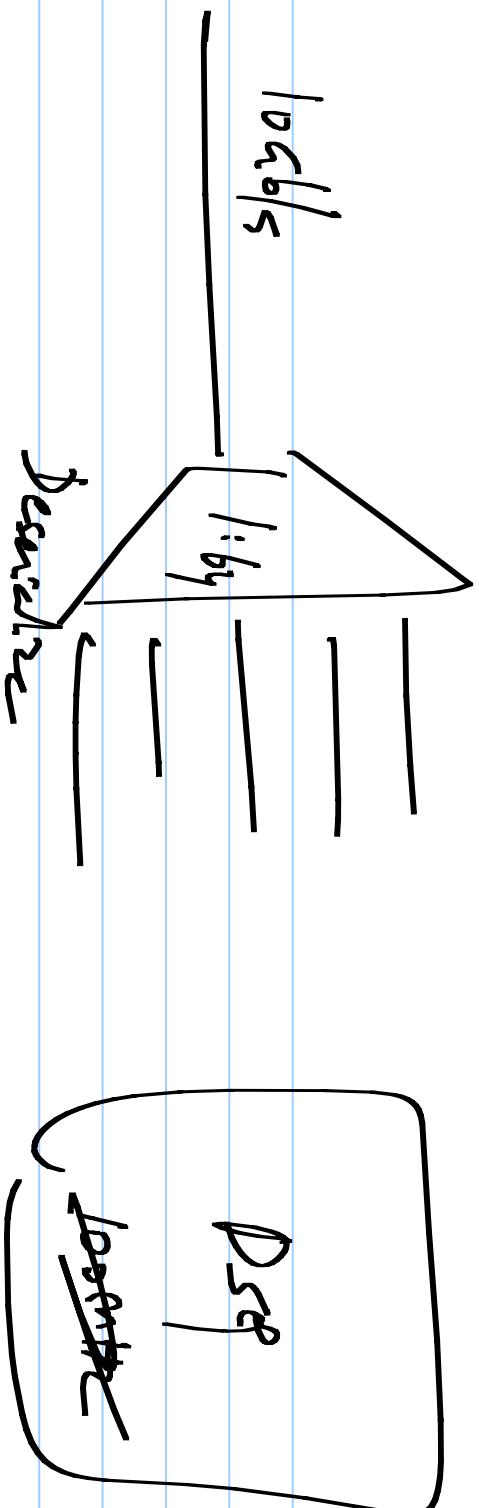
Binary P.D



around the middle of the data period.







1600/s

Half rate

