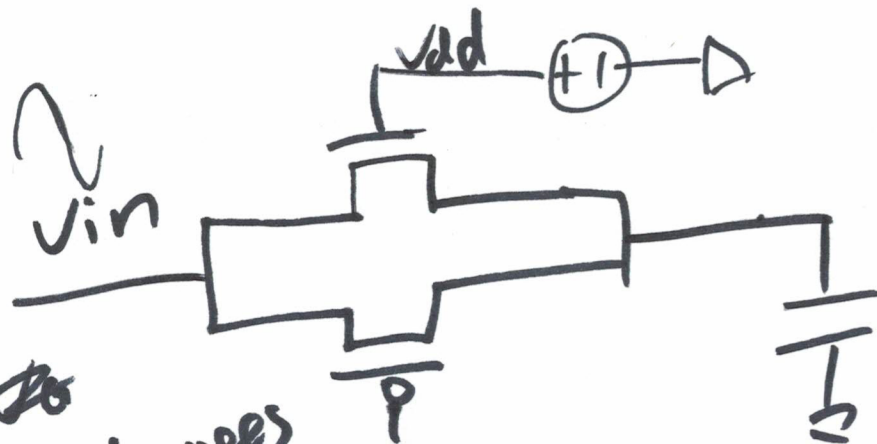
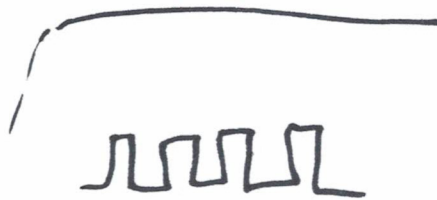
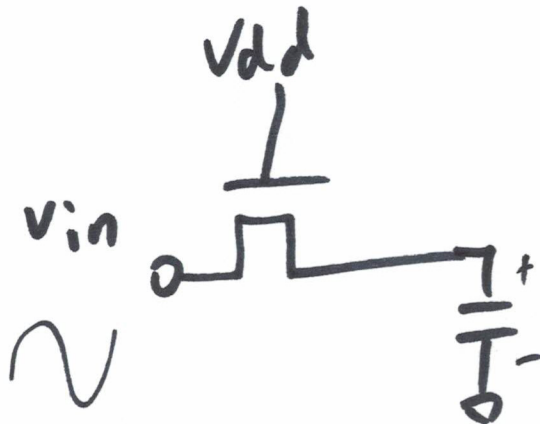
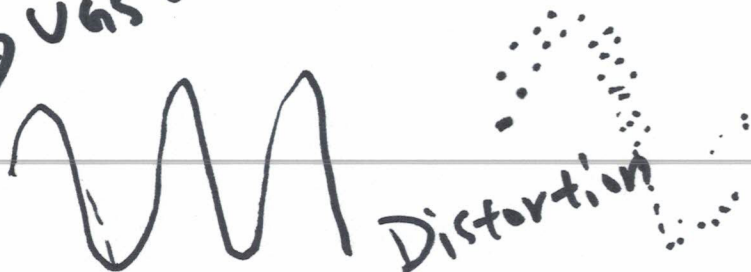


sample/hold

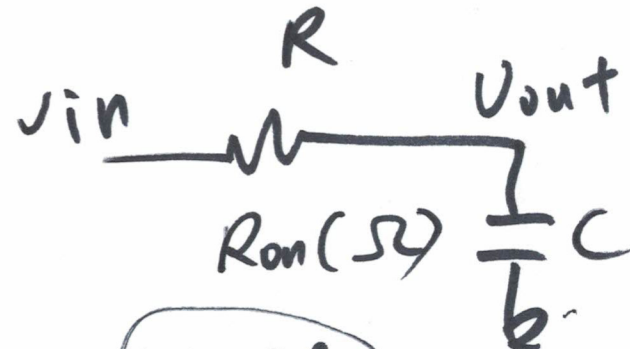


~~vin~~
vin changes
⇒ Vgs changes



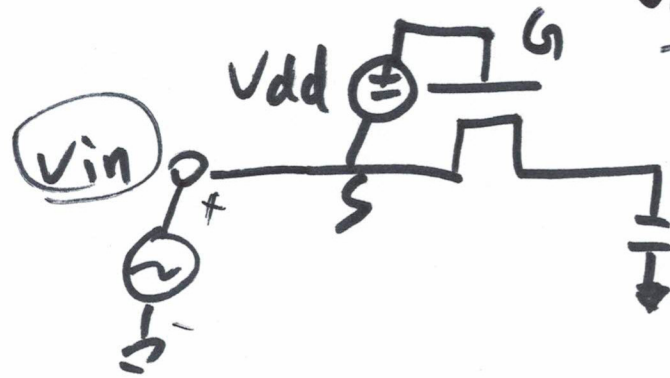
①

$$\underline{I_{DS}} = \frac{K_p n}{2} \frac{W}{L} (V_{GS} - V_{THN})^2$$



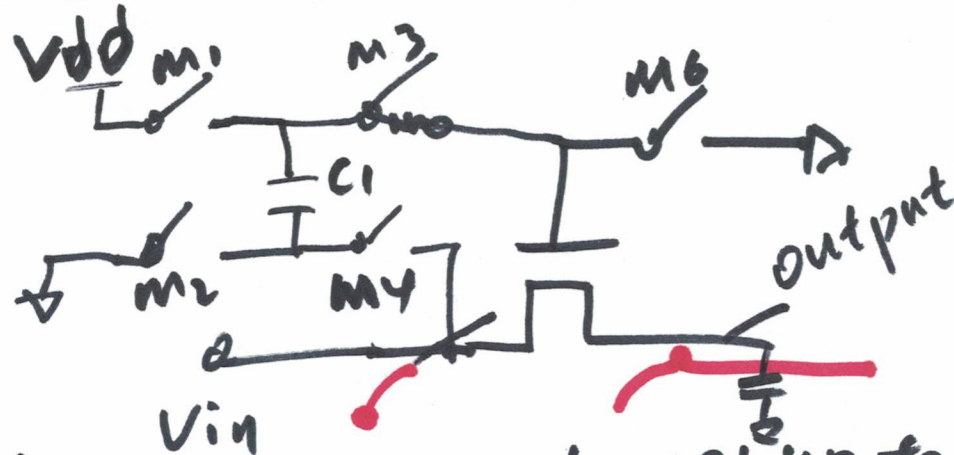
0.7RC

Ideal Model:



V_G ? changing
 V_{GS} not changing

model with switches:



(M_6 closed)

M_1/M_2 closed: C_1 charges up to $V_{dd} \Rightarrow$ hold

M_3/M_4 closed: $V_{GS} = V_{dd}$ (M_6 open) $\Rightarrow$ ~~hold~~ sample/track

