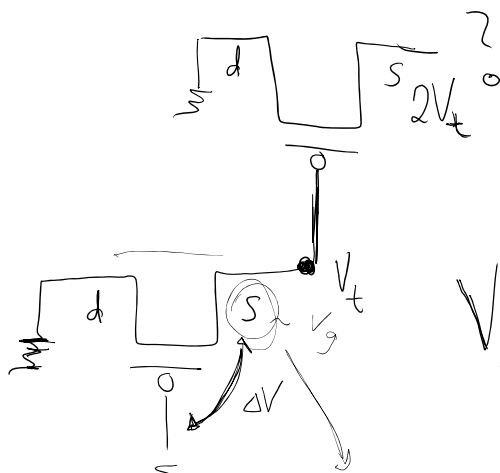


$$V_{gs} = V_g - V_s > V_t$$

$$V_{dd} - 0 > V_t$$



$$V_{sg} = V_s - V_g > V_t$$

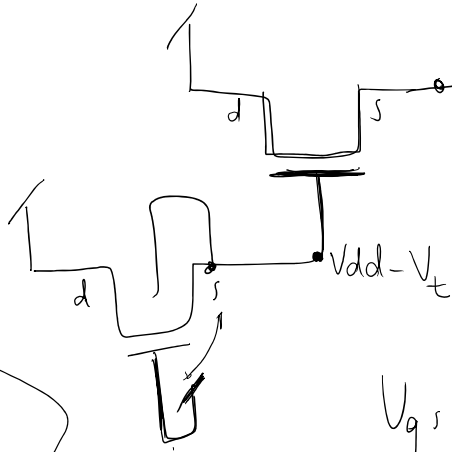
V_{gs} r

$$|V_{tp}| = V_{tn} = V_t$$

$$V_{gs} = (V_{dd} - V_t) - V_s > V_t$$

$$V_s < V_{dd} - 2V_t$$

Body effects ?

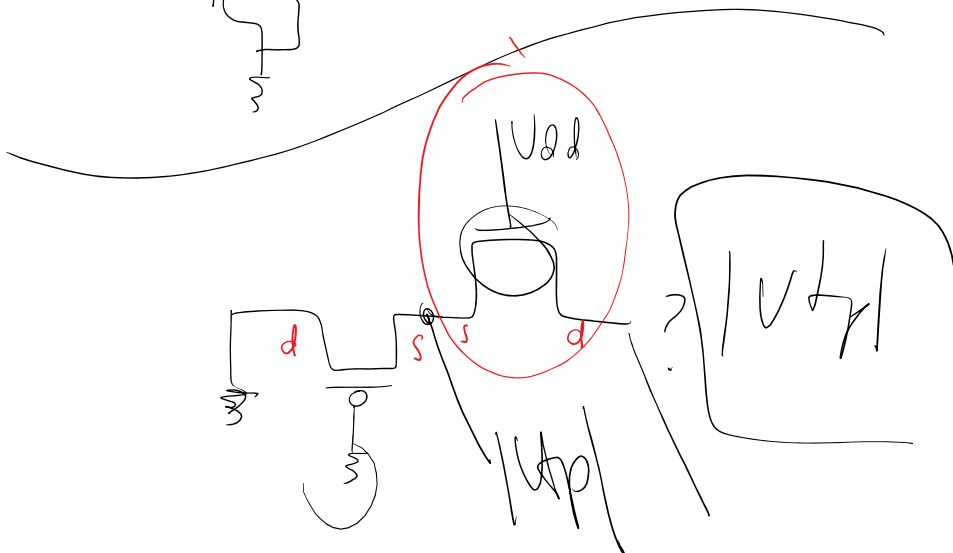
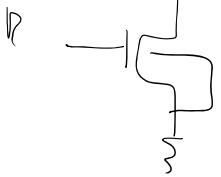
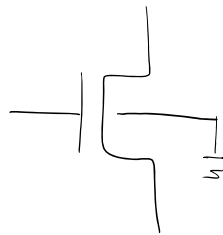
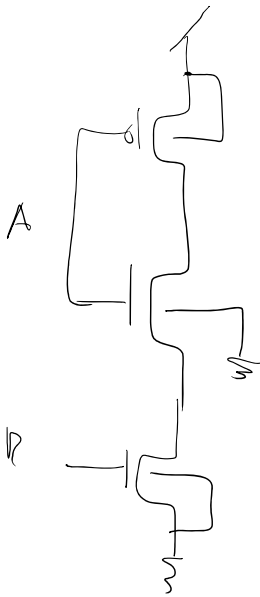


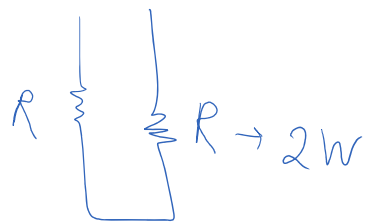
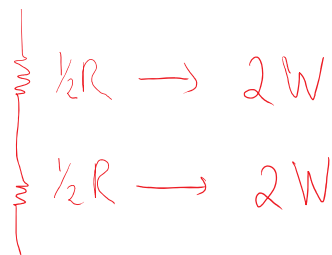
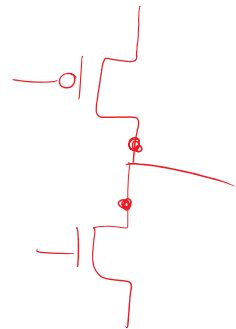
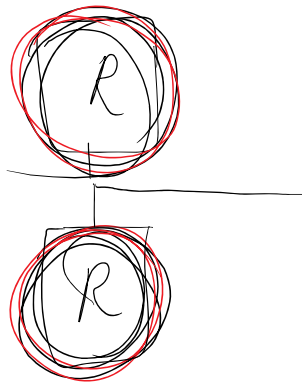
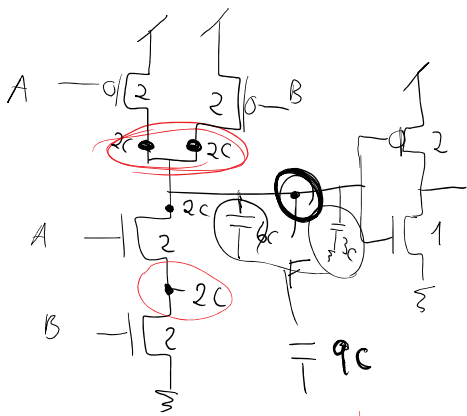
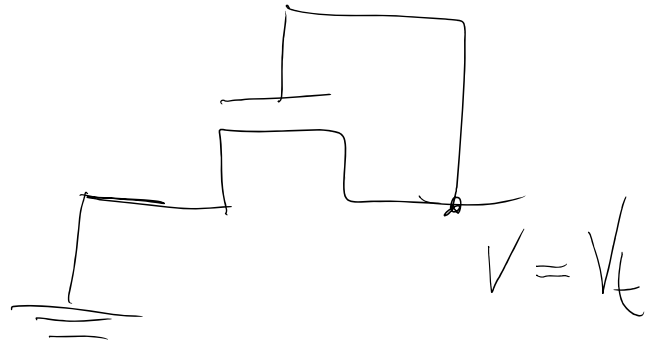
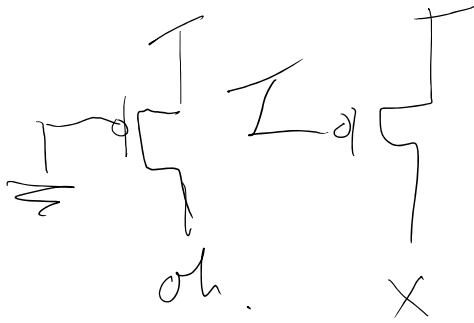
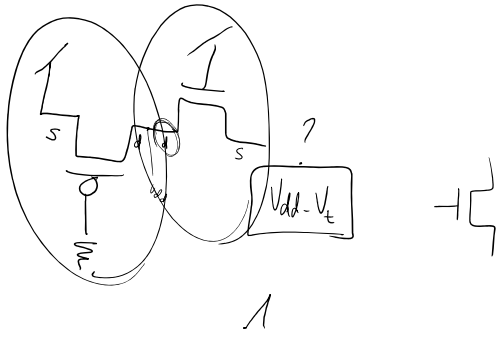
$$V_{gs} = V_{dd} - V_s > V_t$$

$$-V_s > V_t - V_{dd}$$

$$V_s < V_{dd} - V_t$$

$$V_{gsb} = V_g - V_s - V_b$$



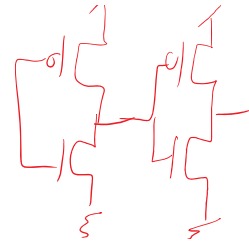


v - 9r



$$x = 9C$$

$$xR = \frac{9RC}{6RC} = \underline{\underline{1.5}}$$



2 NOR — 2 NAND

