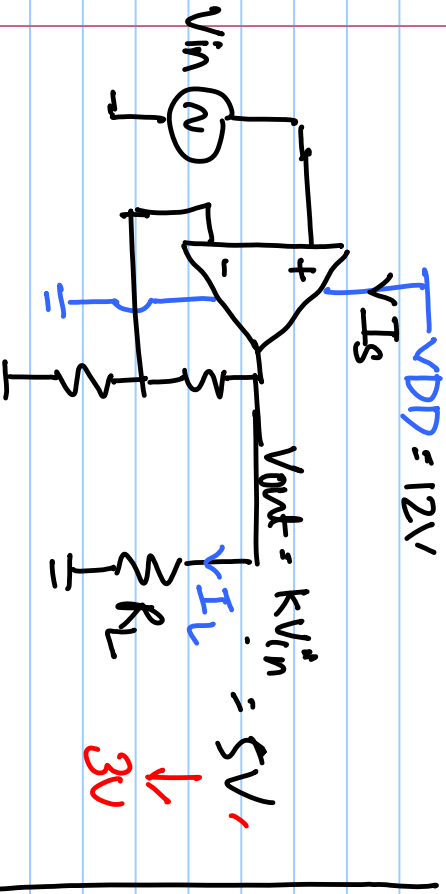


# Lecture #26



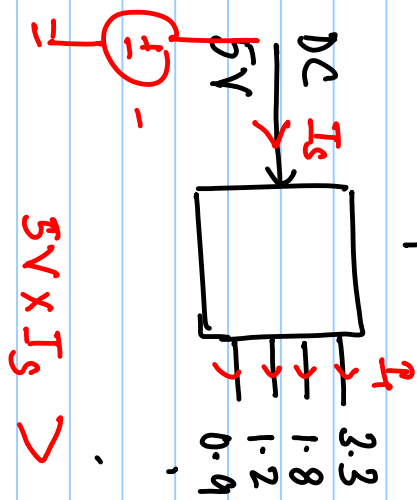
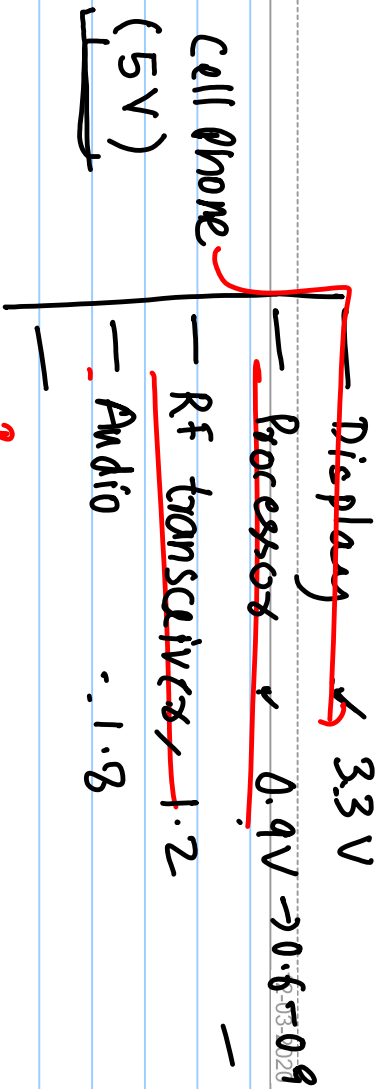
Power in  $R_L = I_L^2 R_L$

Power drawn from supply =  $V_{DD} \times I_S$

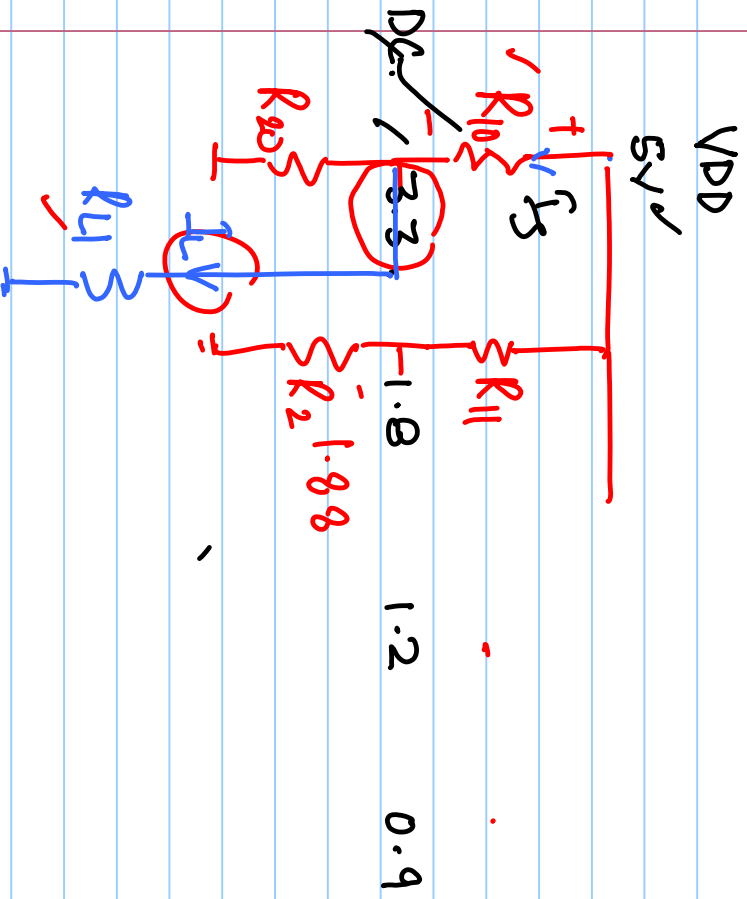
$I_S > I_L$

Power efficiency =  $\frac{\text{Power delivered to load}}{\text{Power drawn from supply}}$

$\approx \int$

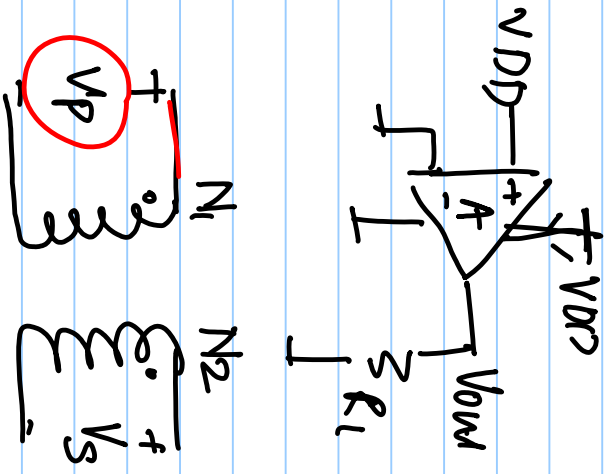


$5V \times I_S > I_1 \times 3.3 + I_2 \times 1.8$

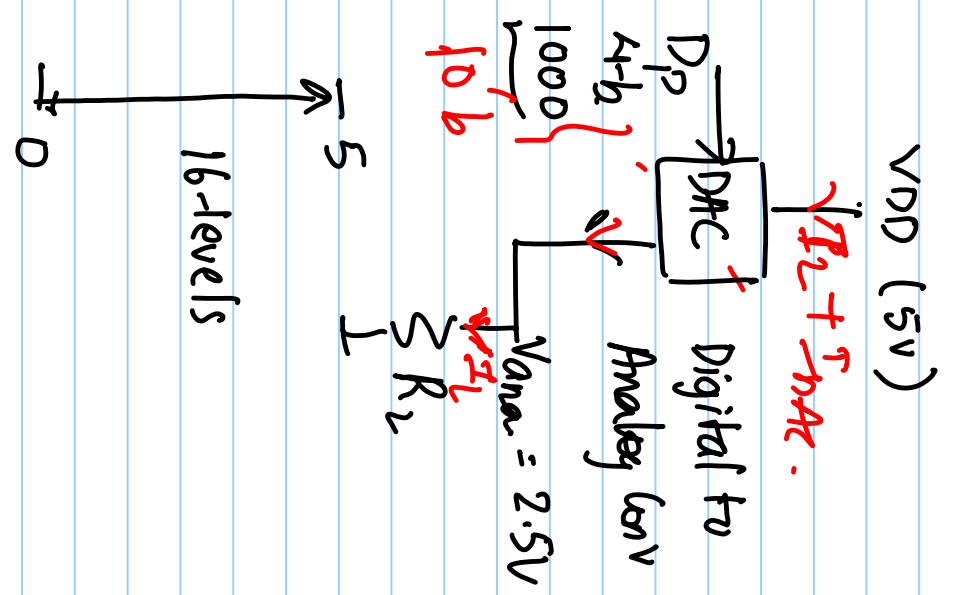


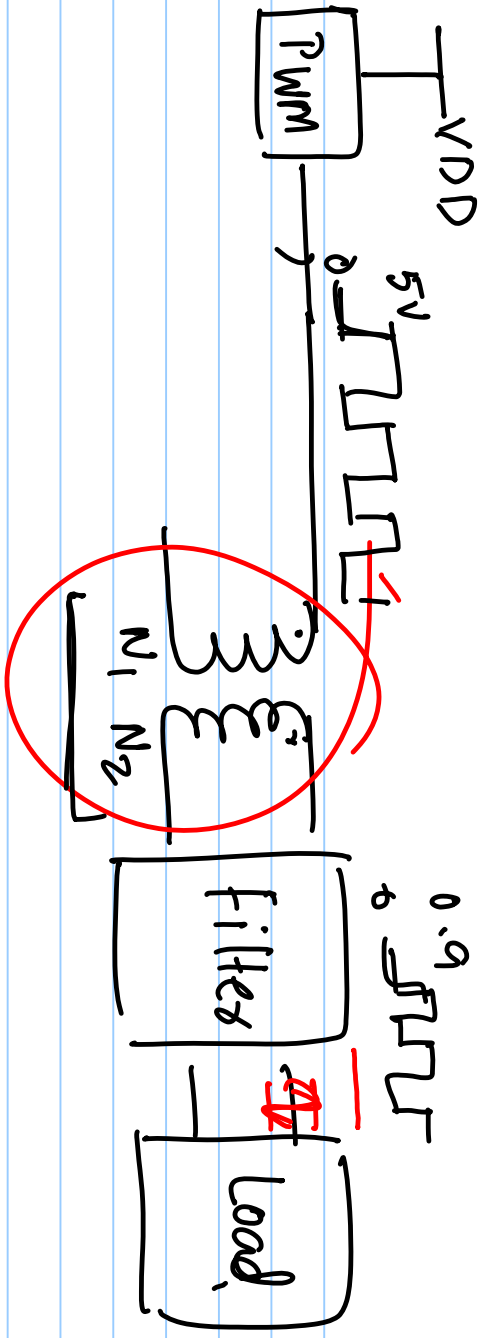
$$P_L = I_L^2 \times R_{L1}$$

$$P_S = \frac{V_{DD}^2}{R_{10} + (R_{20} || R_{L1})}$$



$$\frac{V_P}{V_S} = \frac{N_1}{N_2}$$





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