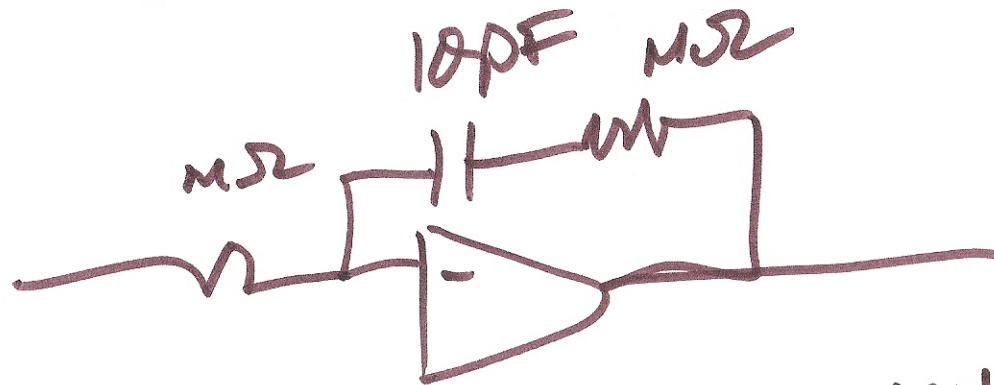


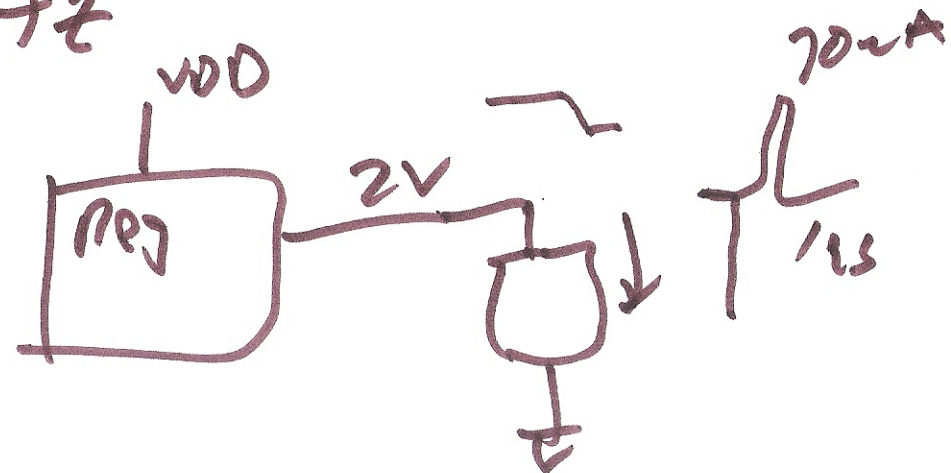
Lecture 36

NOV. 19, 2010

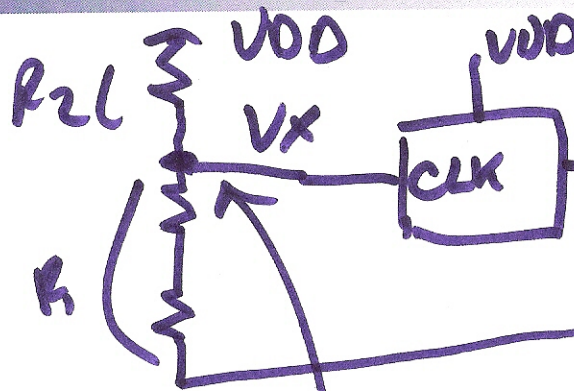
 22mEV

$$f_{p.1} = 100\text{kHz}$$

$$f_z = 1\text{kHz}$$



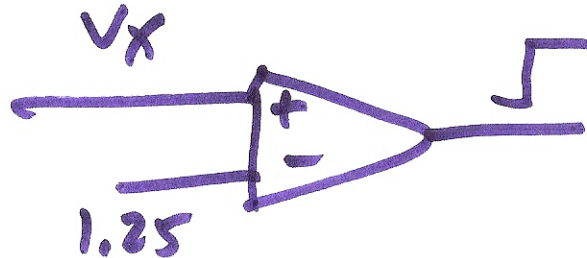
VREF



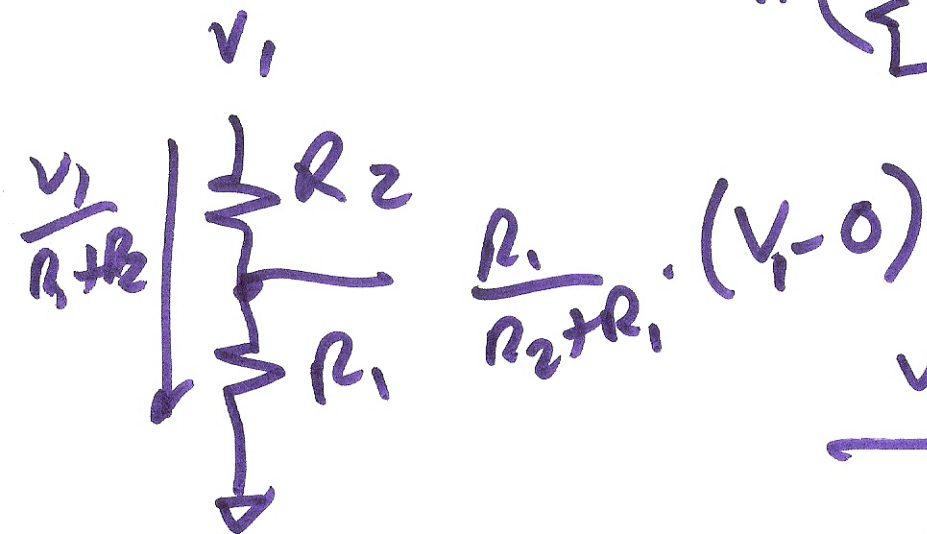
$-\frac{1}{2} V_{DD}$
NC.

V_{DD}

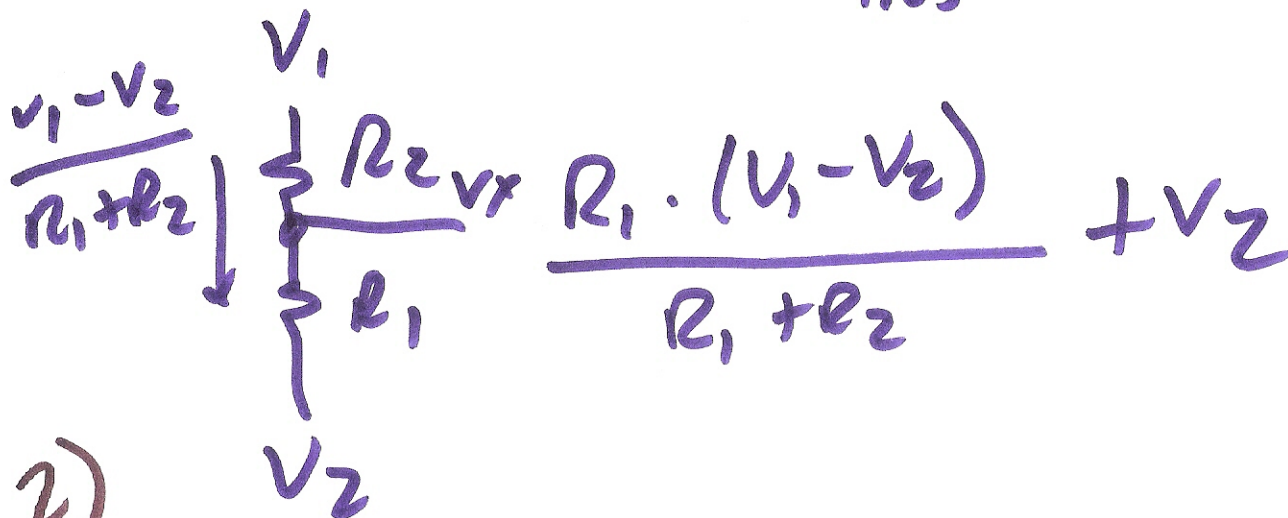
$$V_x = \left(V_{DD} - \left(-\frac{1}{2} \right) \right) \cdot \frac{R_1}{R_1 + R_2}$$



$-\frac{1}{2} V_{DD}$



$$\frac{R_1}{R_2 + R_1} \cdot (V_1 - 0)$$

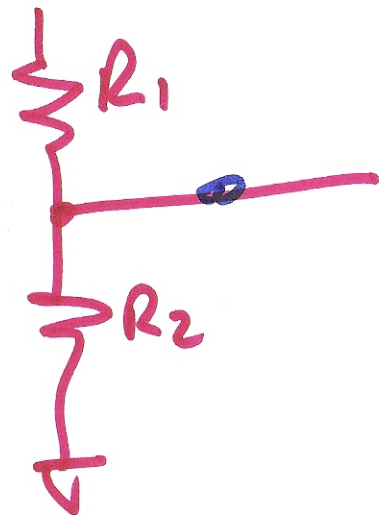


$$\frac{R_1 \cdot (V_1 - V_2)}{R_1 + R_2} + V_2$$

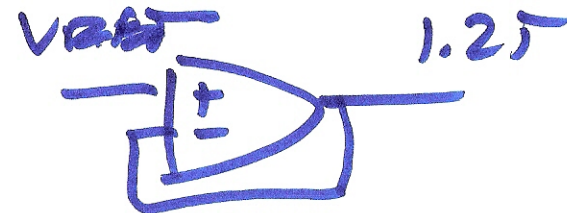
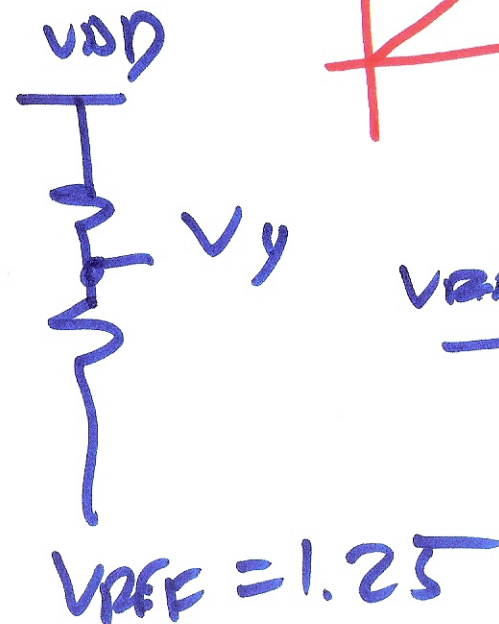
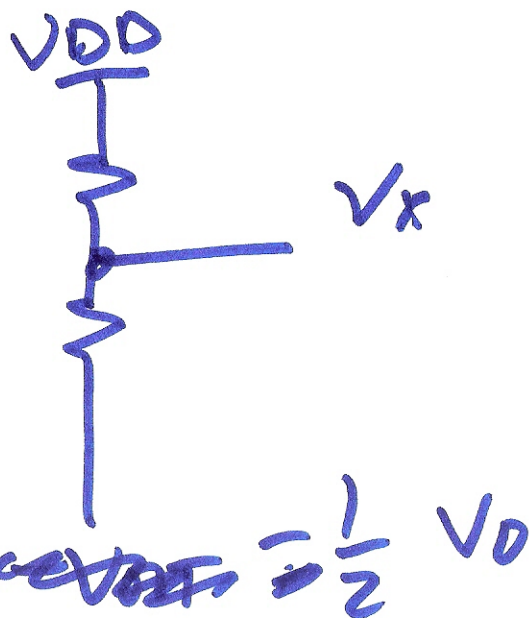
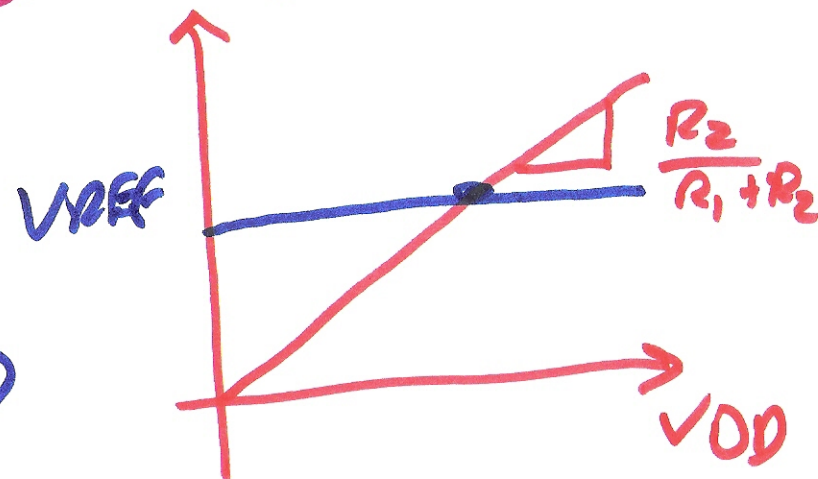
2)

$V_{DD} \quad V_{REF} = -\frac{1}{2}V$

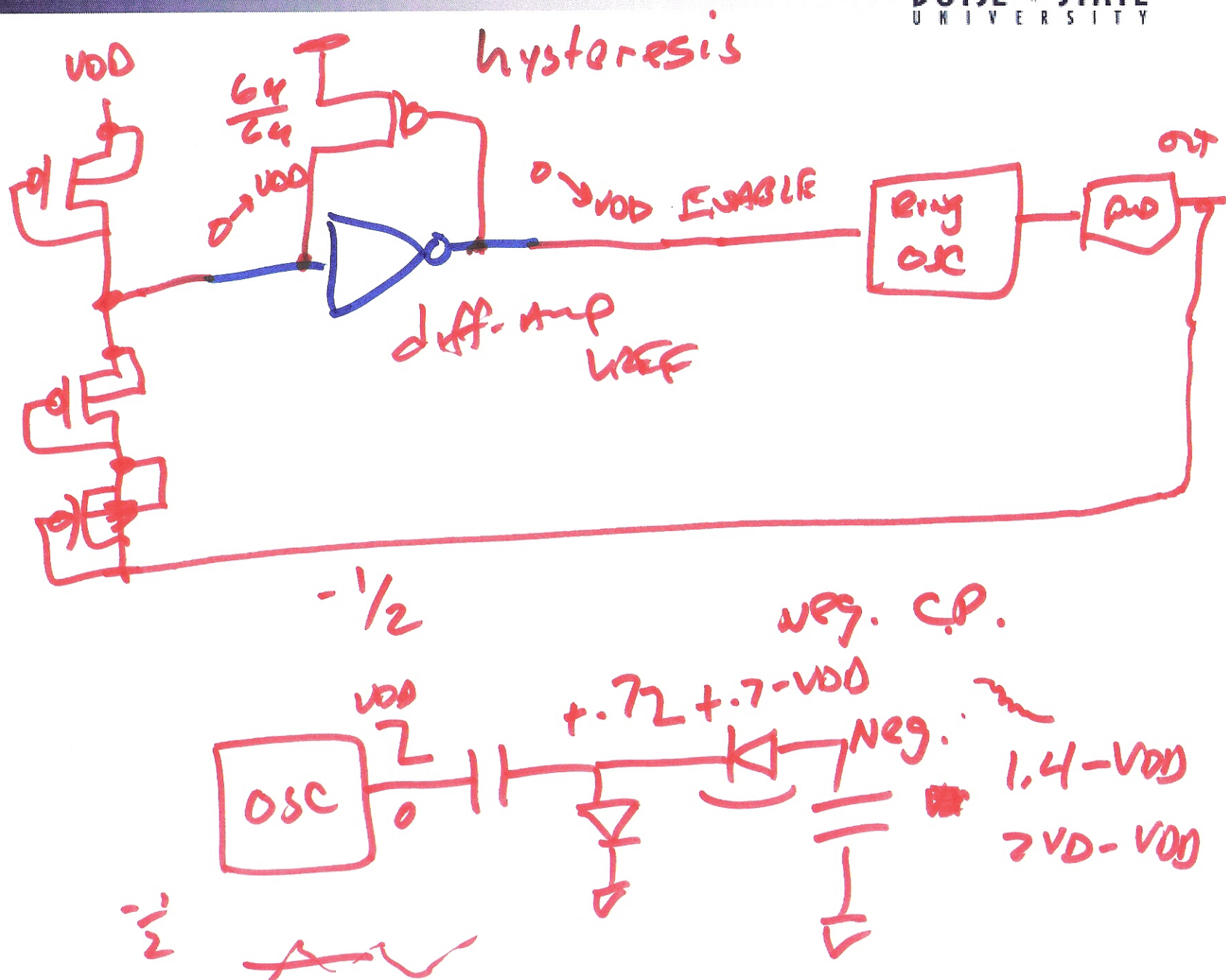
-1004H



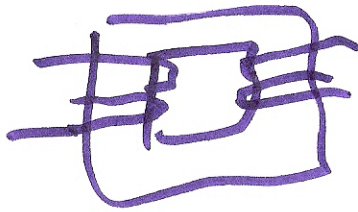
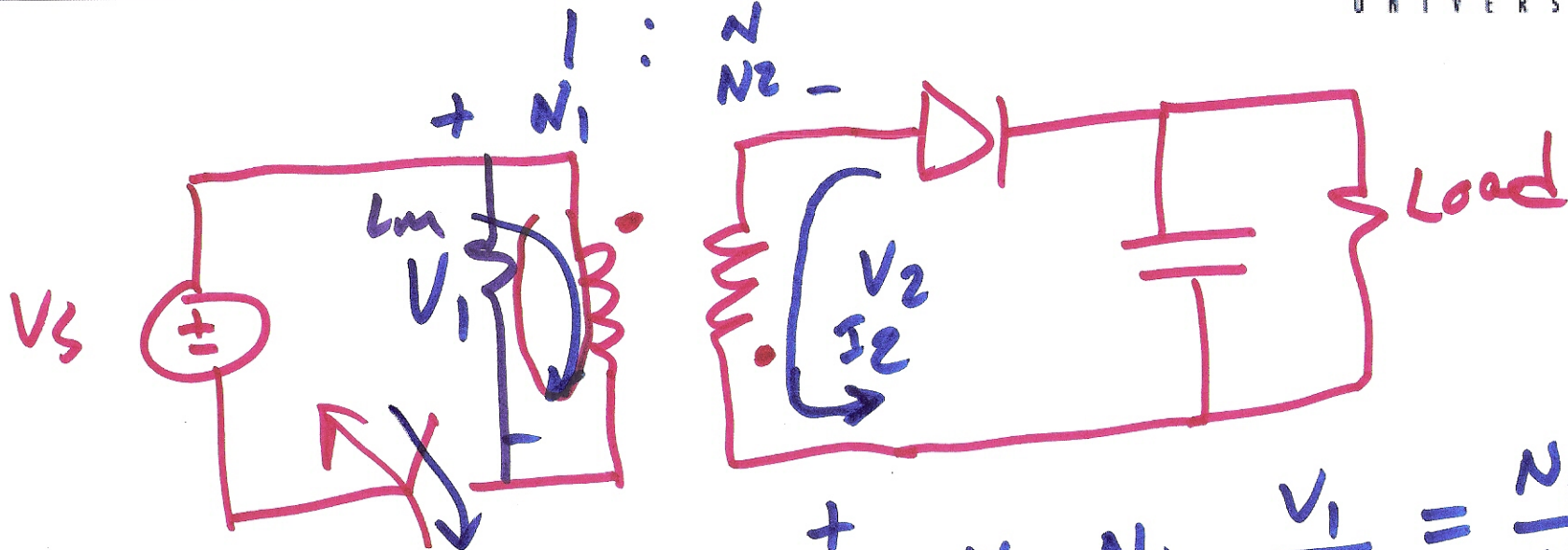
$\frac{R_2}{R_1 + R_2} \cdot V_{DD} = V_x$



3)



Flyback DC-DC Converters



$$\frac{V_1}{V_2} = \frac{N_1}{N_2} = \frac{L_1^2}{L_2^2}$$

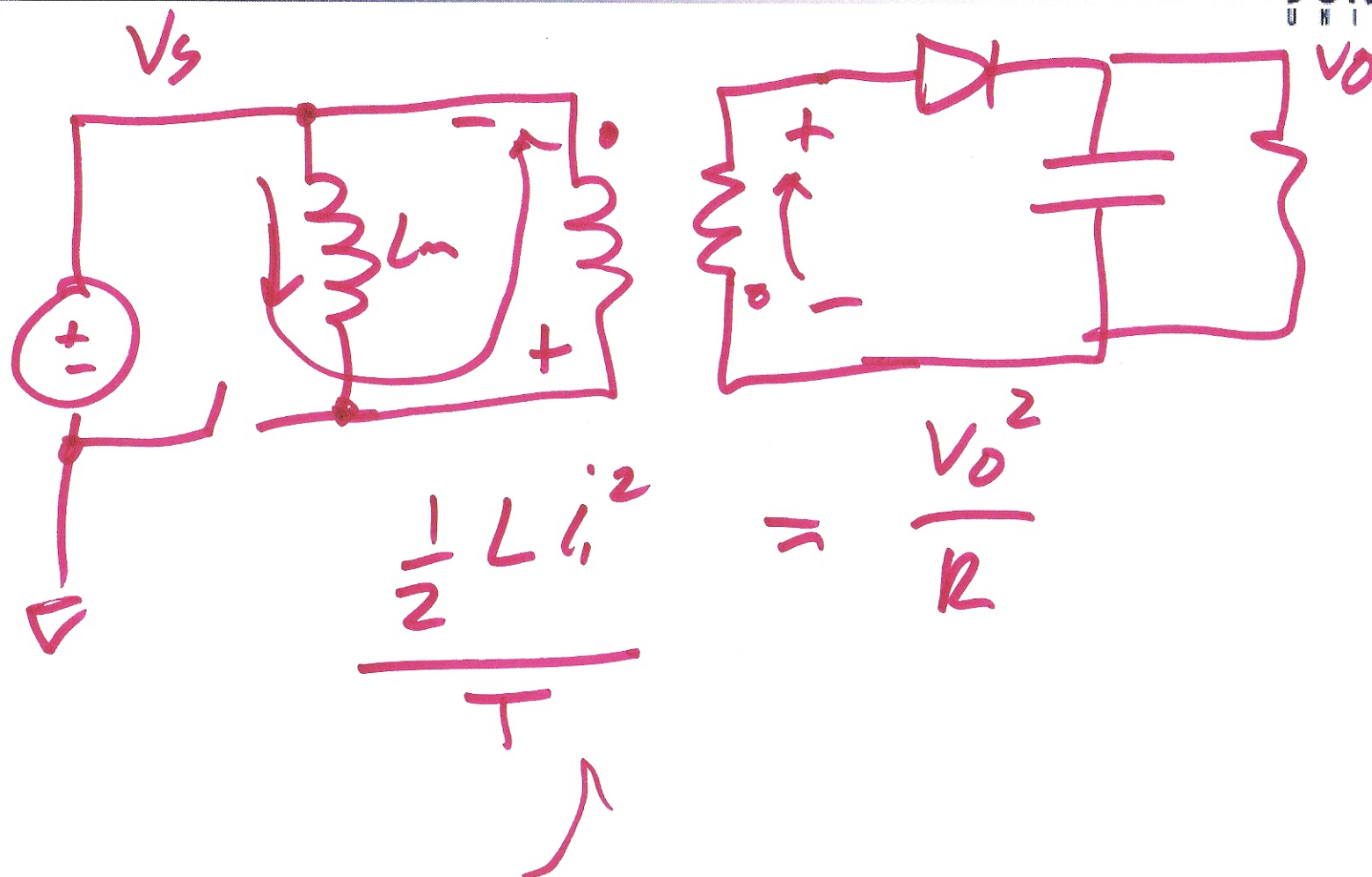
$$\frac{I_1}{I_2} = \frac{N_2}{N_1} \quad \frac{I_1}{I_2} = \frac{N_2}{N_1}$$

$$t_1 \cdot \frac{V_s}{L_m} = i_m(t_1)$$

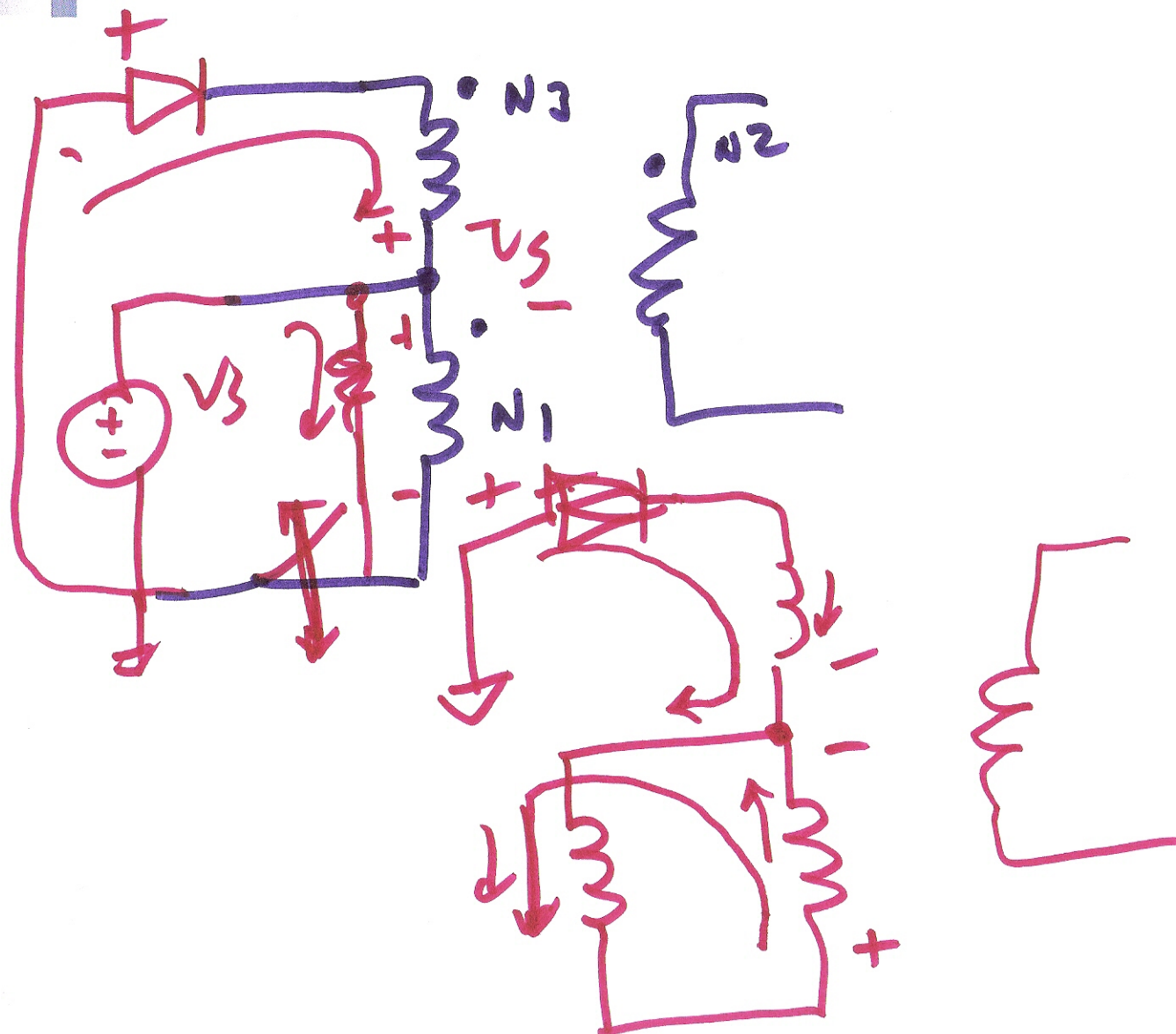
$$V_1 \cdot I_1 = V_2 \cdot I_2$$

$$\frac{V_1}{I_1} = \frac{V_2}{I_2} \cdot \frac{N_1^2}{N_2^2}$$

5)



6)



7)

