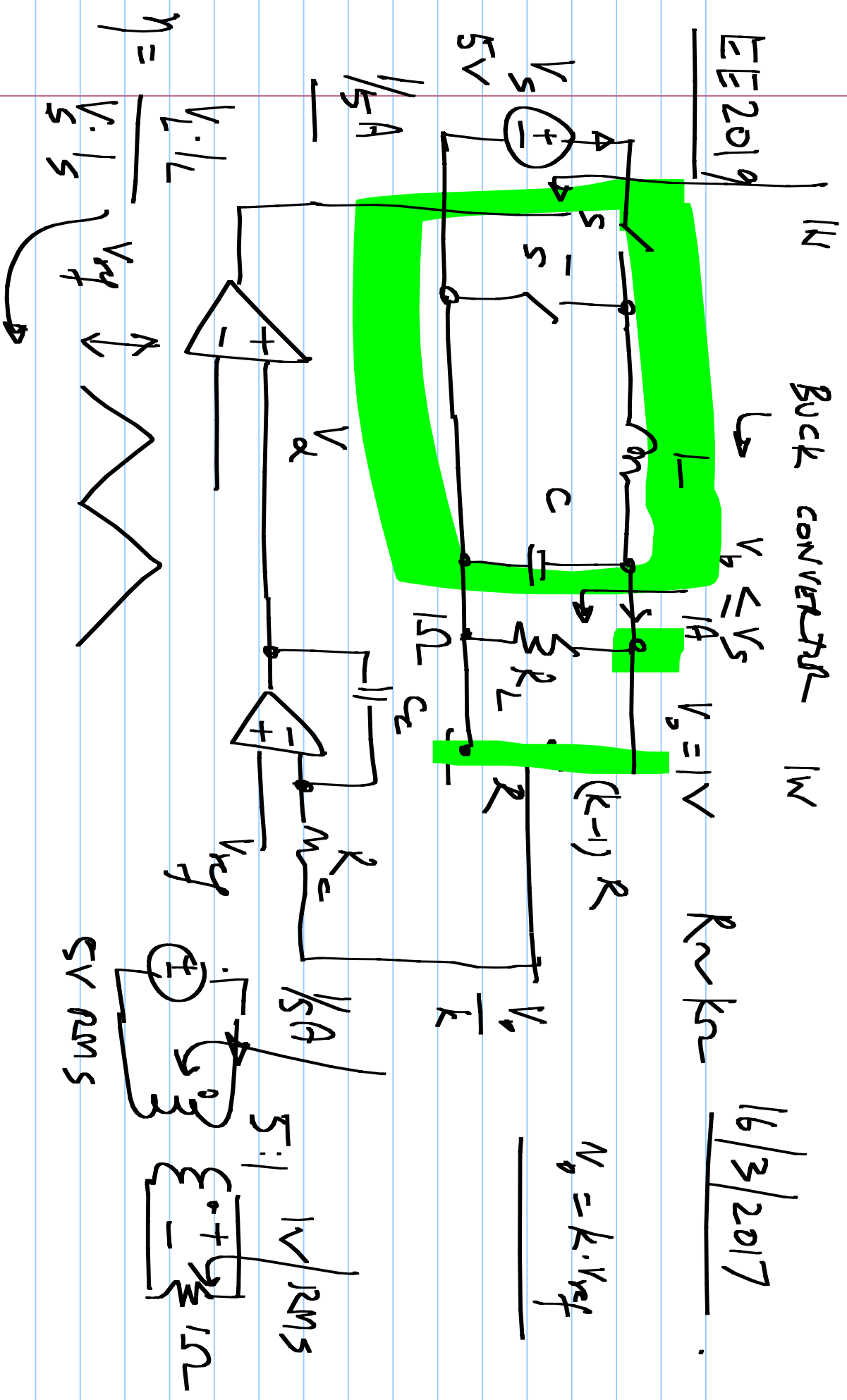


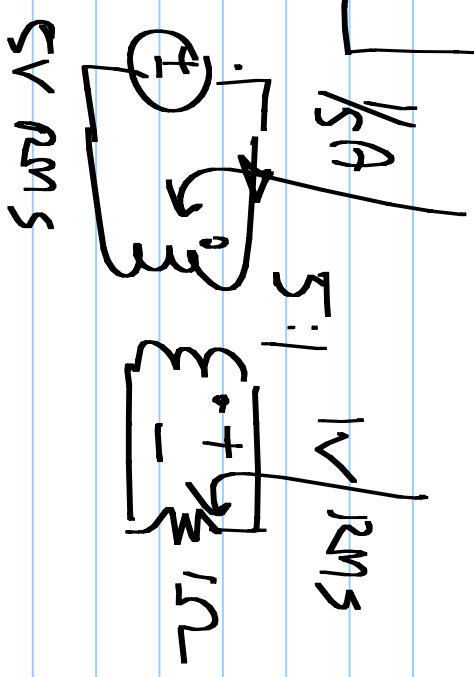
EEE 2019

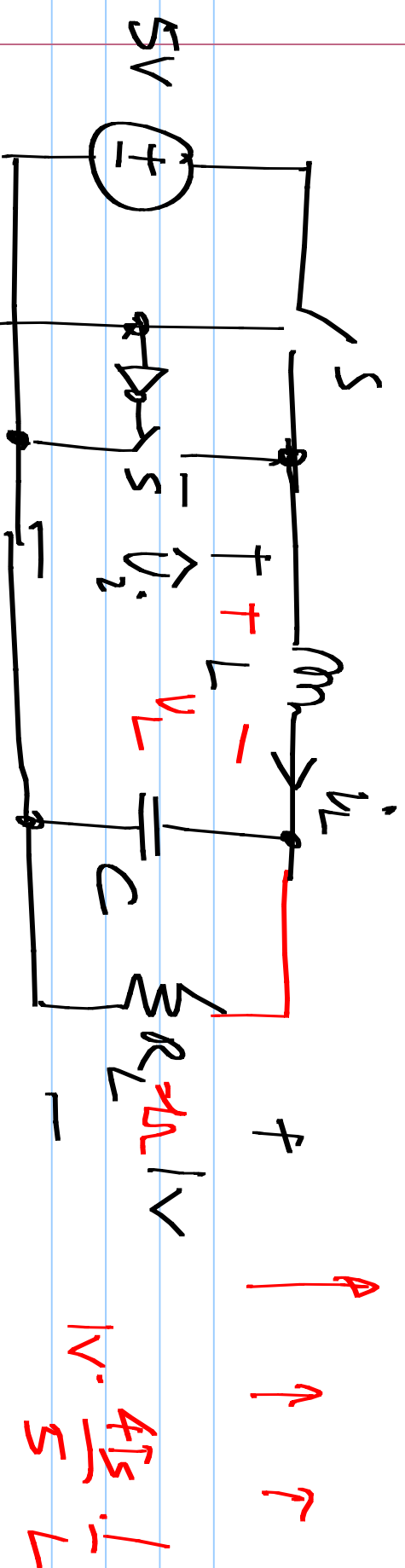
Buck converter 1W

16/3/2017



$V_o = k \cdot V_{ref}$

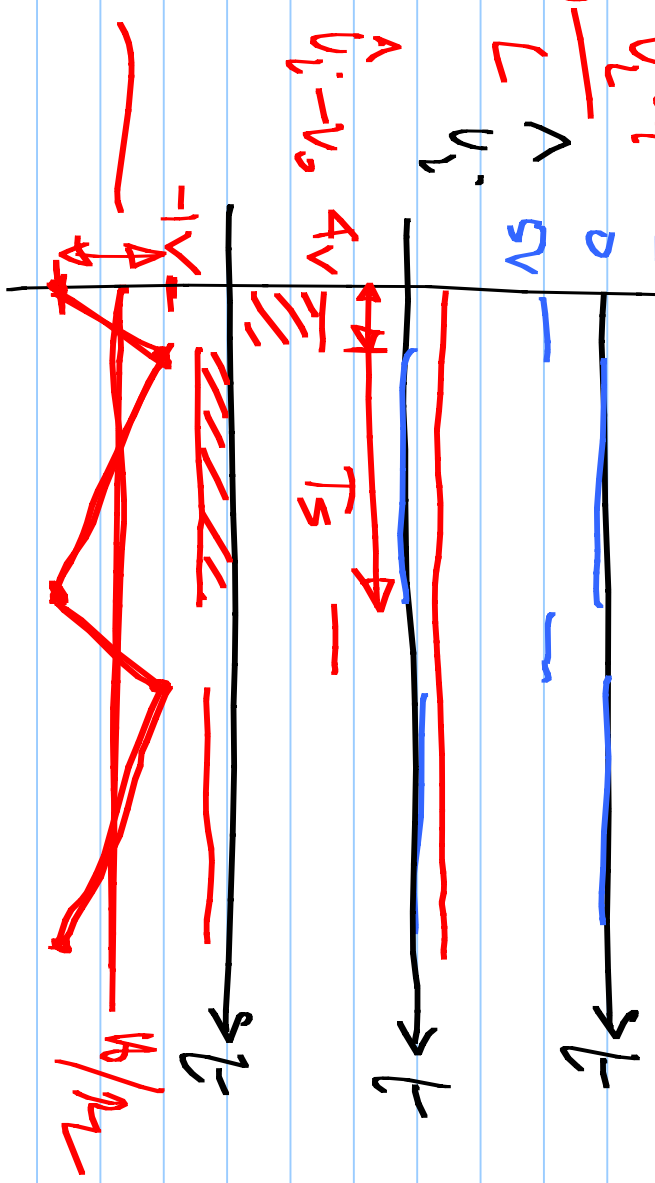




$$D_L = \int \frac{V_L dt}{L}$$

$$\frac{di_L}{dt} = \frac{1}{L} \cdot V_L$$

$$\frac{(V_S - \alpha V_S) \cdot \alpha T_S}{L}$$



$$1 - \left(\frac{v_m}{v}\right)^2$$

$$\frac{v^2}{v_m^2} + (1) (1) T$$

Calculate I_L , V_C

V_s , ω , R_L , L , C , T_s

$V_{C,pp}$:

