

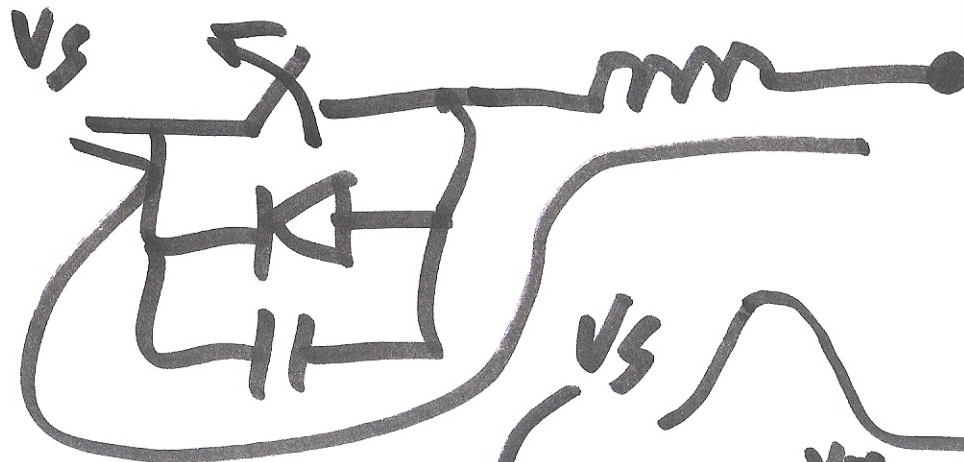
Lecture 30

Nov. 3, 2010

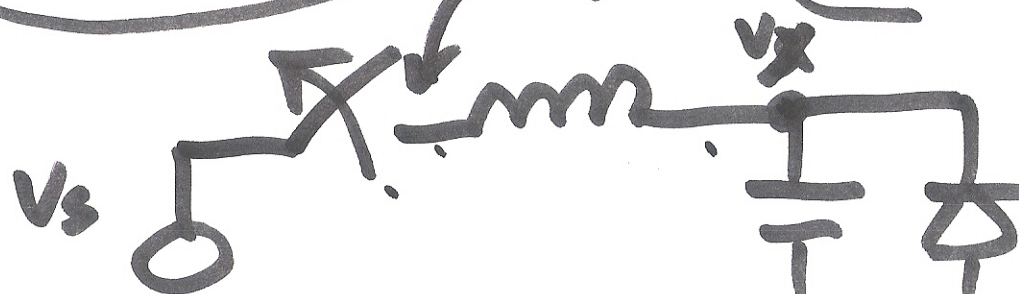
$$V = L \cdot \frac{di}{dt} = 0$$

$$\frac{di}{dt} = 0$$

$i = \text{CONST}$
 V_S (slowly switch)

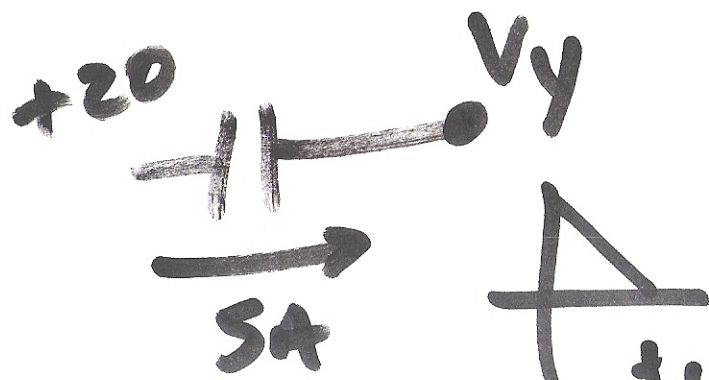
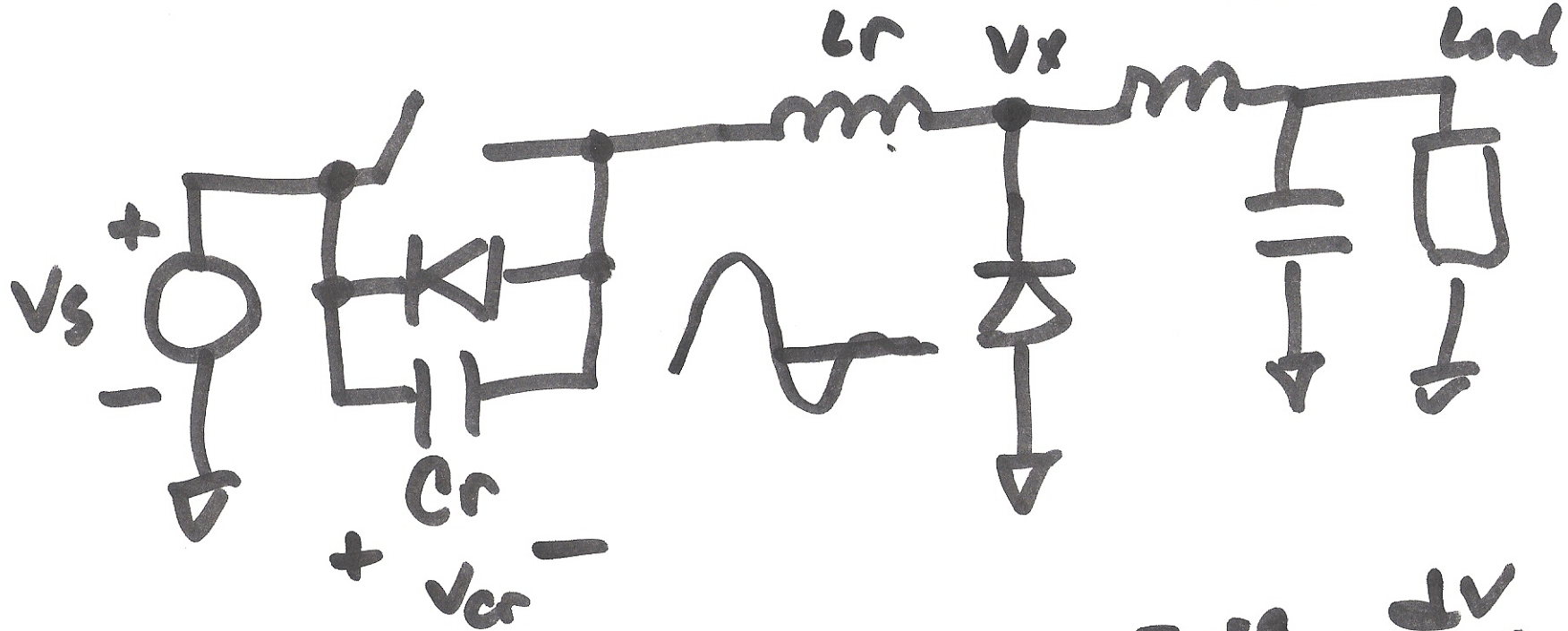


$\approx V_S$



1)

z vs



$$5 = 47e^{-9} \cdot \frac{dv}{dt}$$

$$v_y = -\frac{5}{47N} \cdot t + (1^{100})$$

$$v_c = 20 - v_y = 20 - \frac{5}{47N} t$$

2)

+20 mms⁰

$$V = L \frac{di}{dt} = 20 \text{ m} \cdot \frac{di}{dt}$$

$$i(t) = \frac{20}{L} \cdot t = 5$$

3)