

Lecture 1, Aug. 23, 2010

CMOS EDU. can

$$\frac{V^2}{R} = P$$

Hant

1, 2, 6 - 10

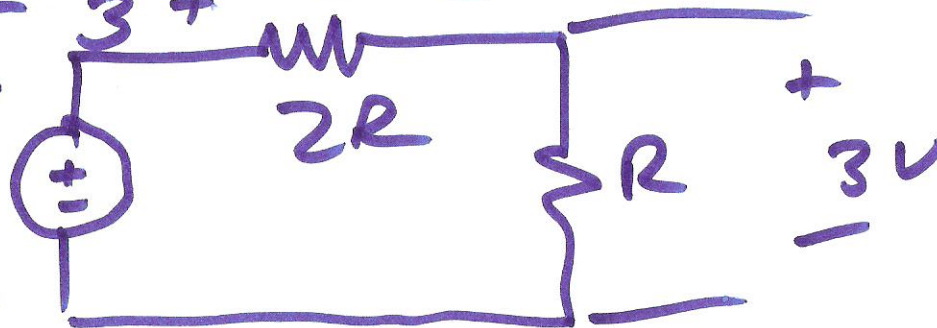
$$P_{load} = \frac{9}{R}$$

$$P_{TOT} = \frac{9}{R} + \frac{36}{2R} \quad \text{100,000,000} \quad \text{500w}$$

$$\frac{P_{load}}{P_{TOT}} = \%$$

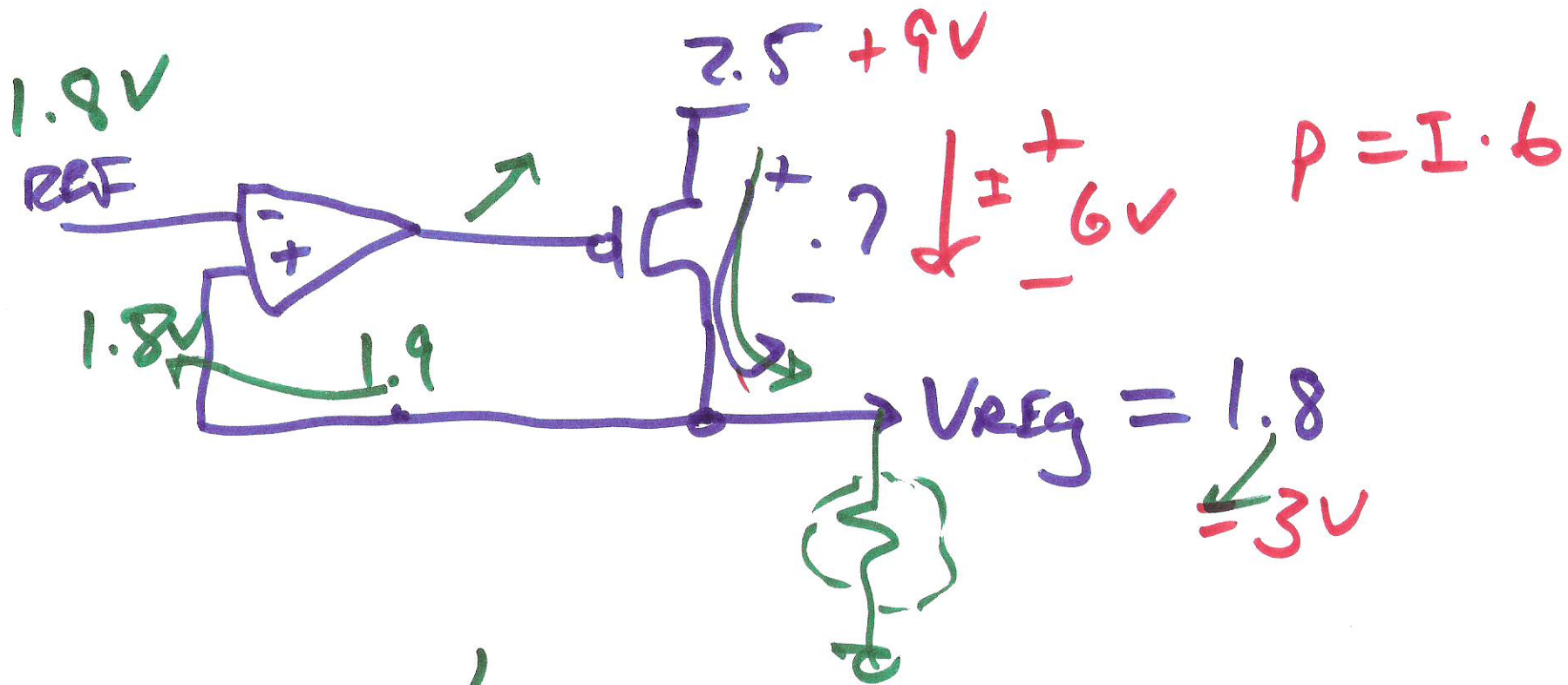
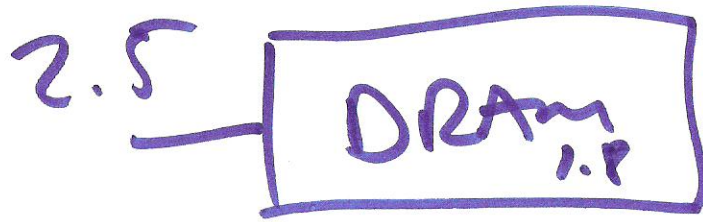
$$\% = \frac{\frac{9}{R}}{\frac{9}{R} + \frac{18}{R}} = \frac{1}{3} + \frac{500 \text{ mW}}{6V}$$

33.33%



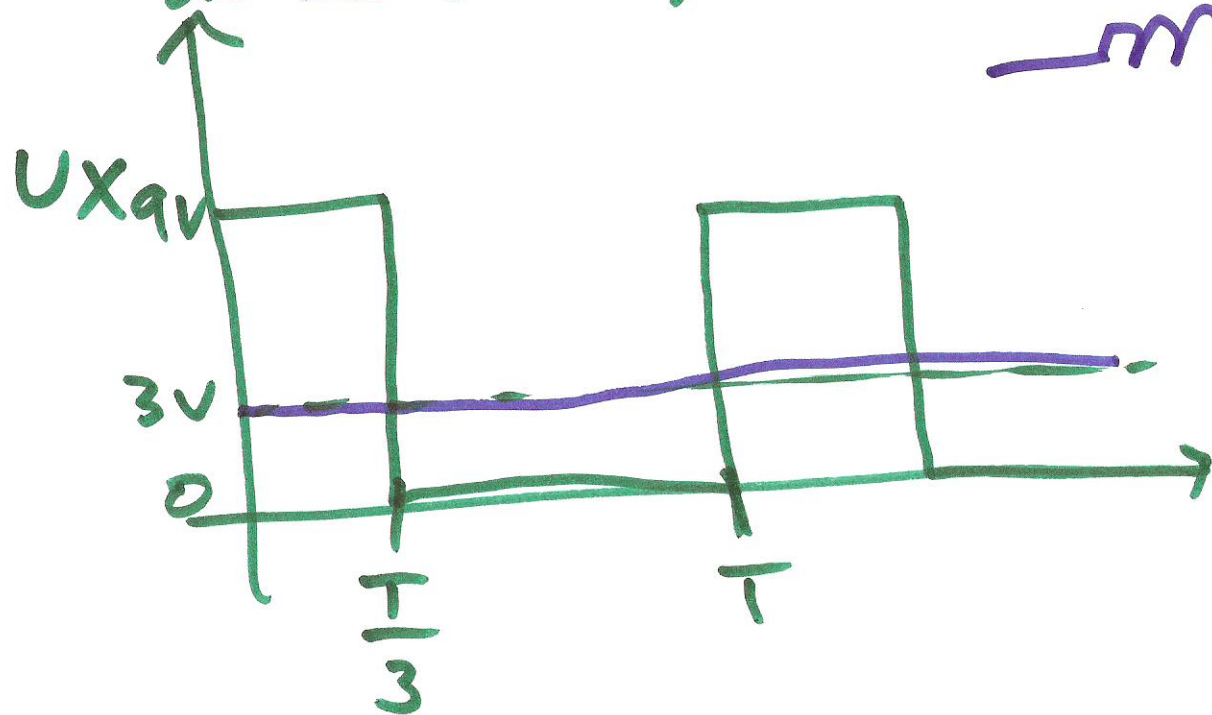
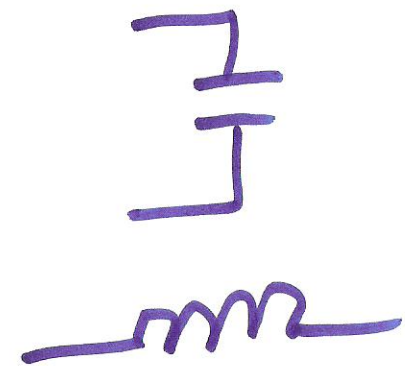
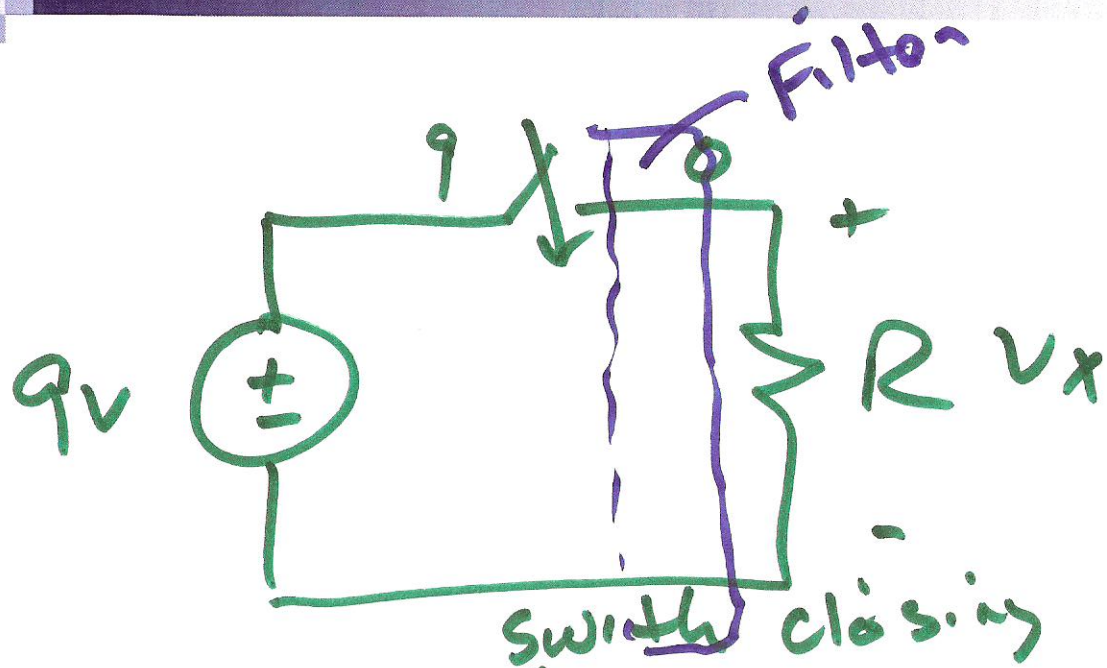
↓  
~~across~~  
by 2R  
by R

1)



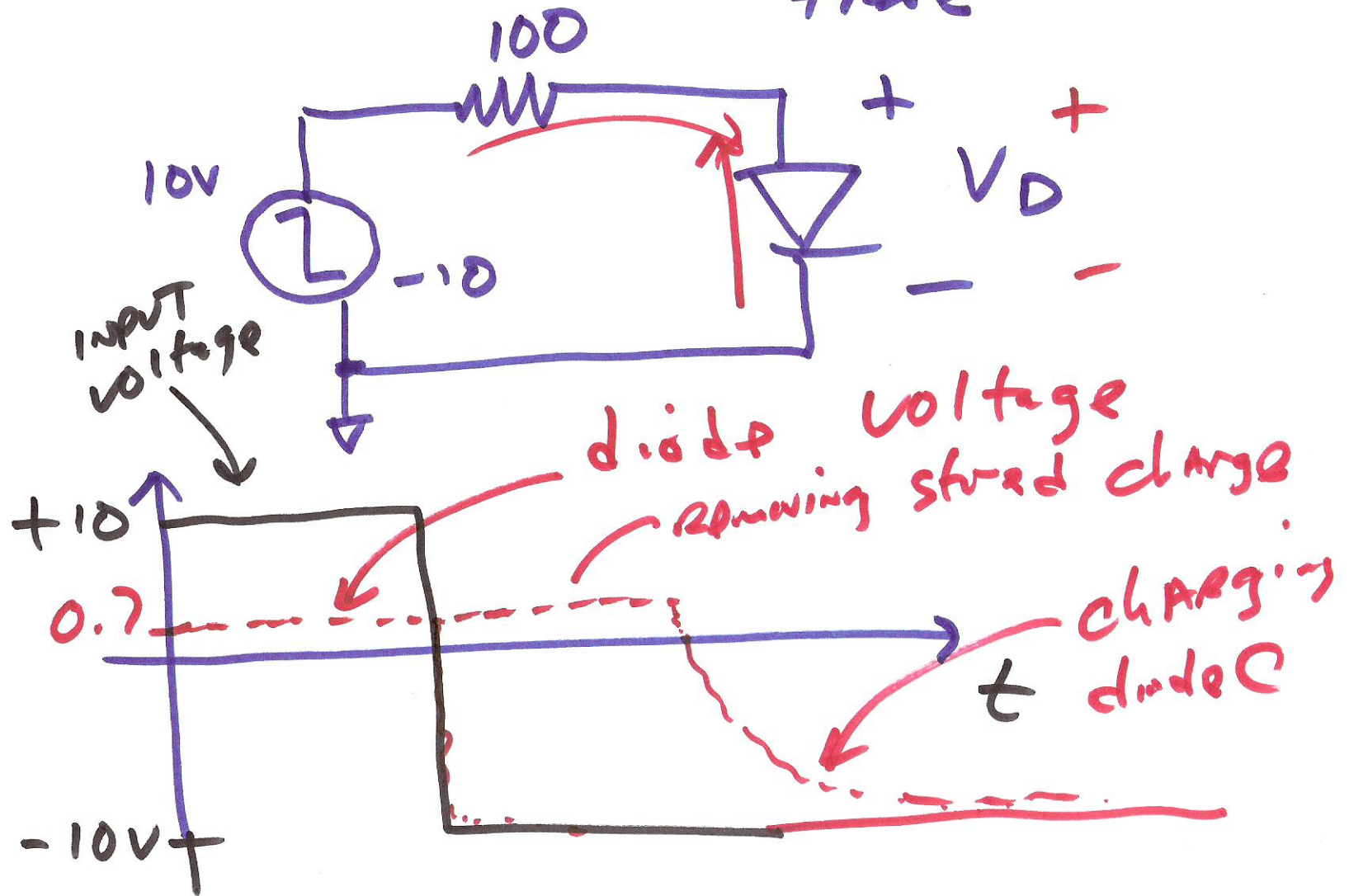
Linear  
regulation

2)



3)

# Diode Reverse Recovery time



4)