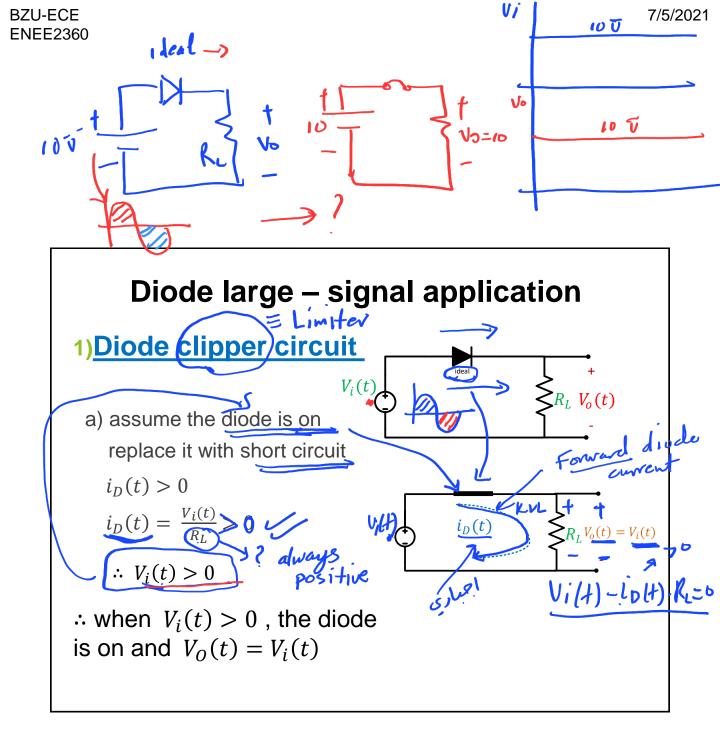
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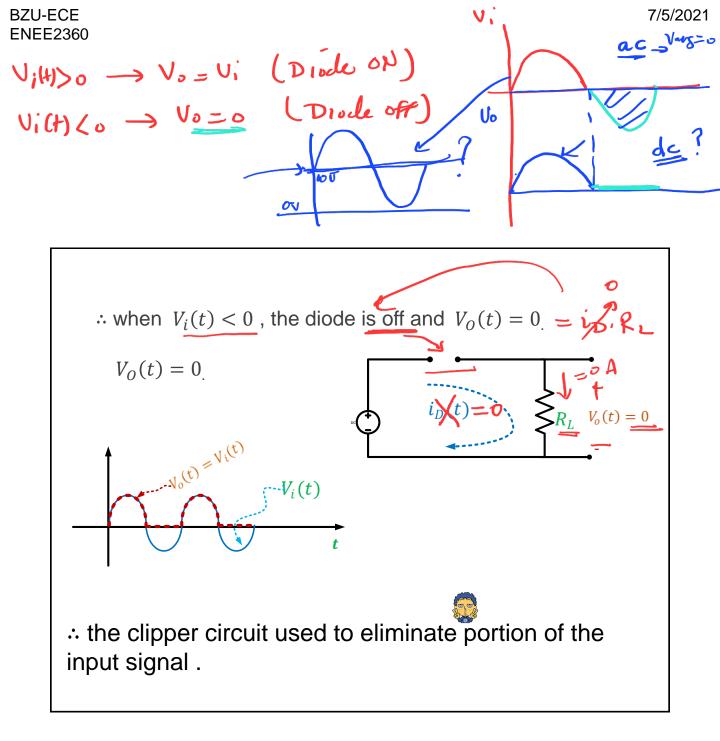
LY-Part 2 13/7/2021

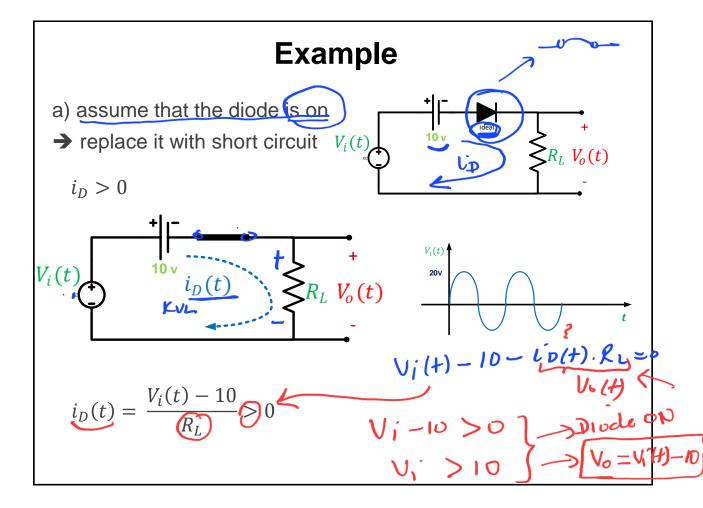
ENEE236 Analog Electronics T3: Diode Applications

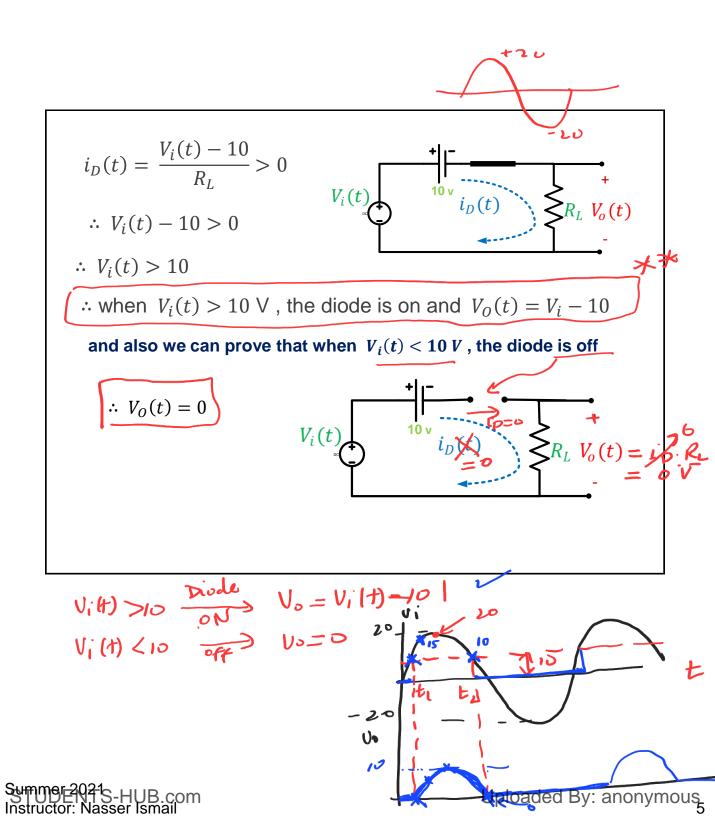
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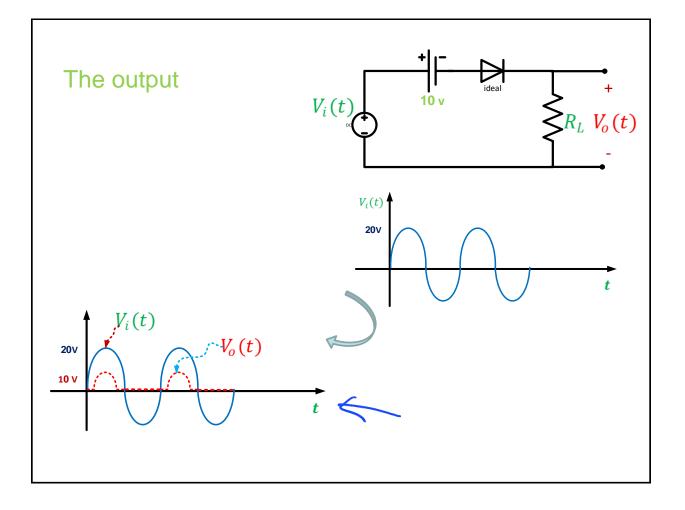
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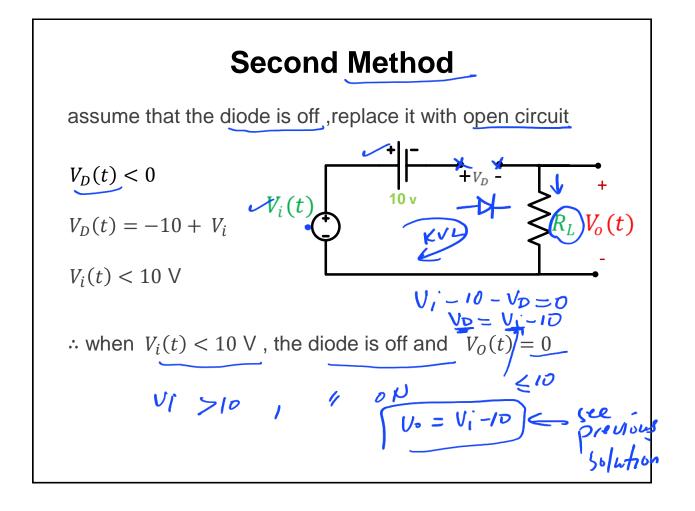


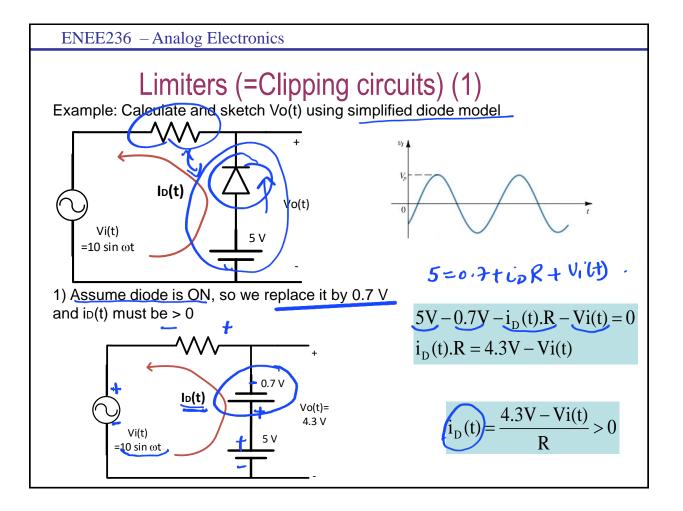


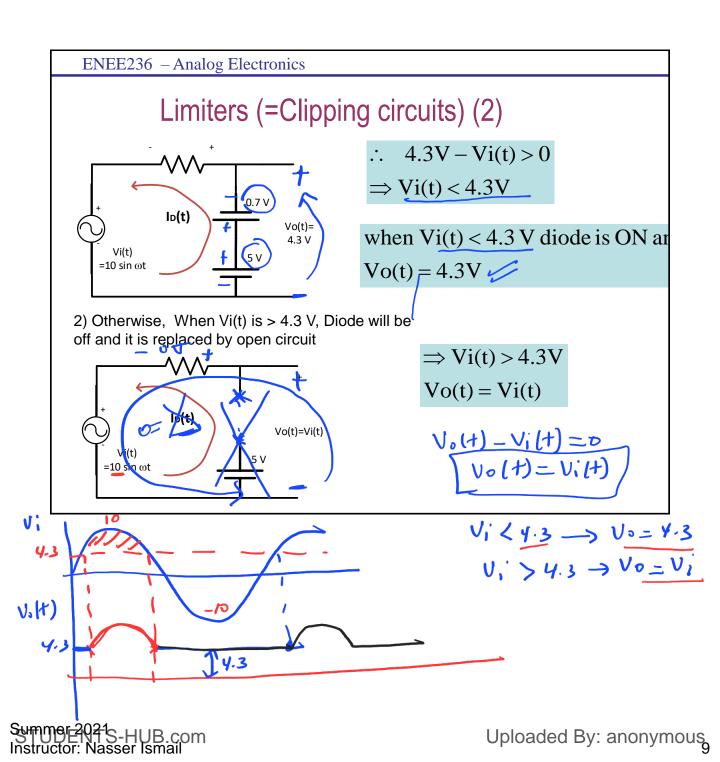


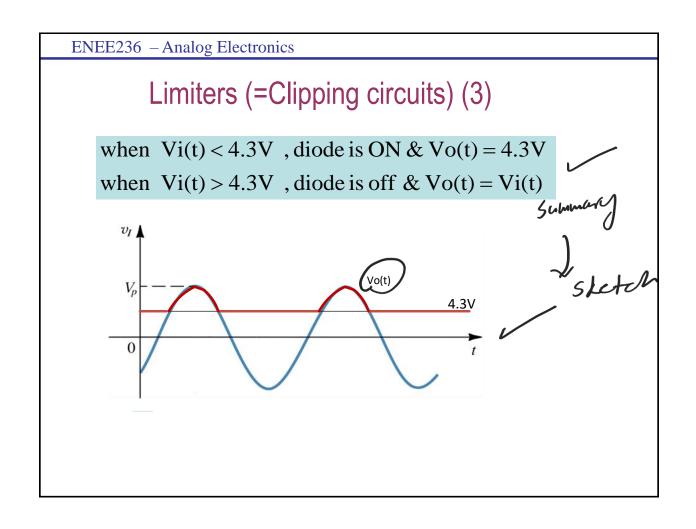


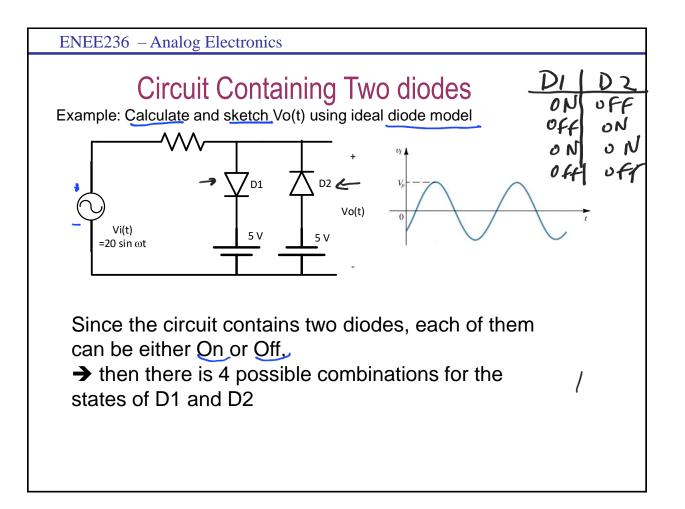






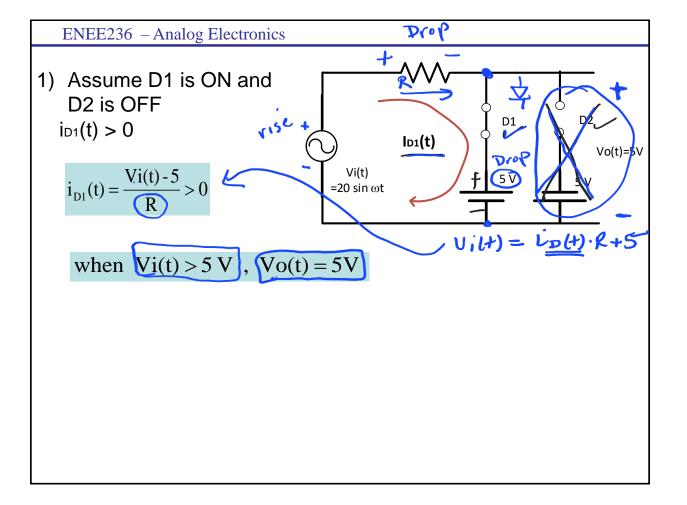


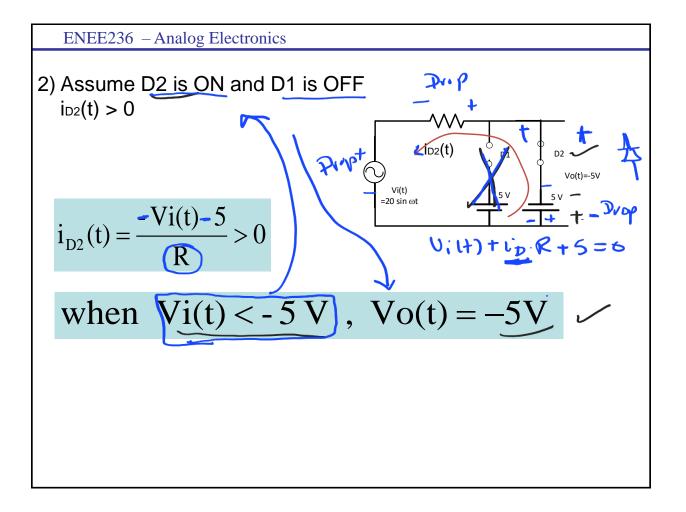




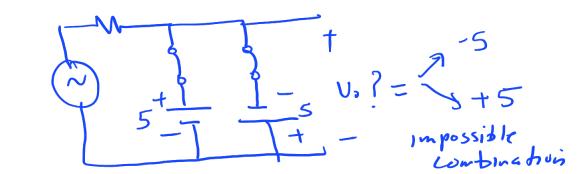
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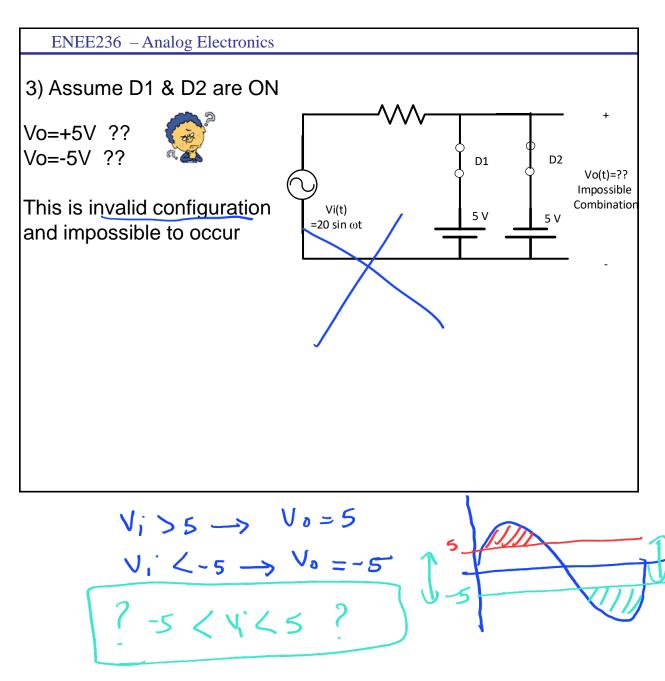
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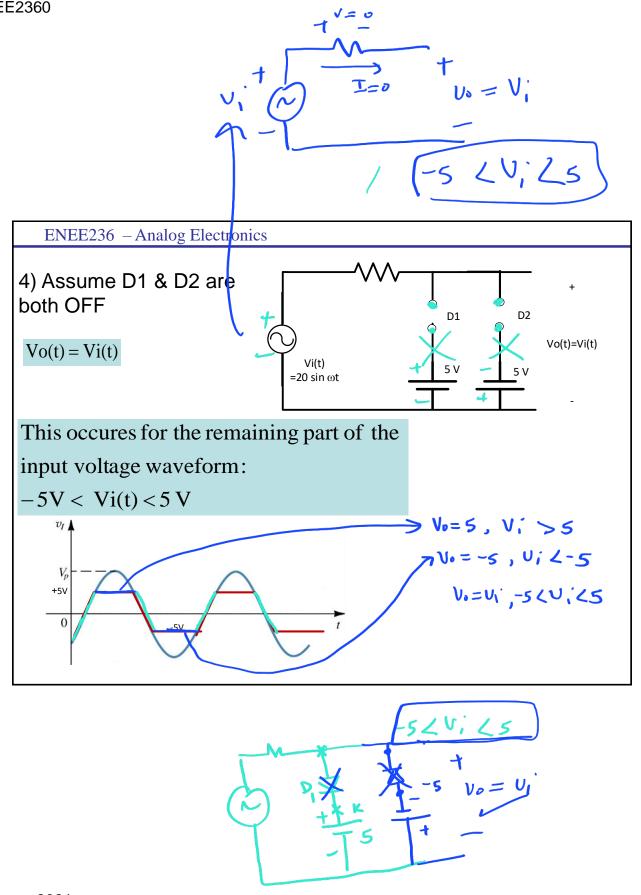


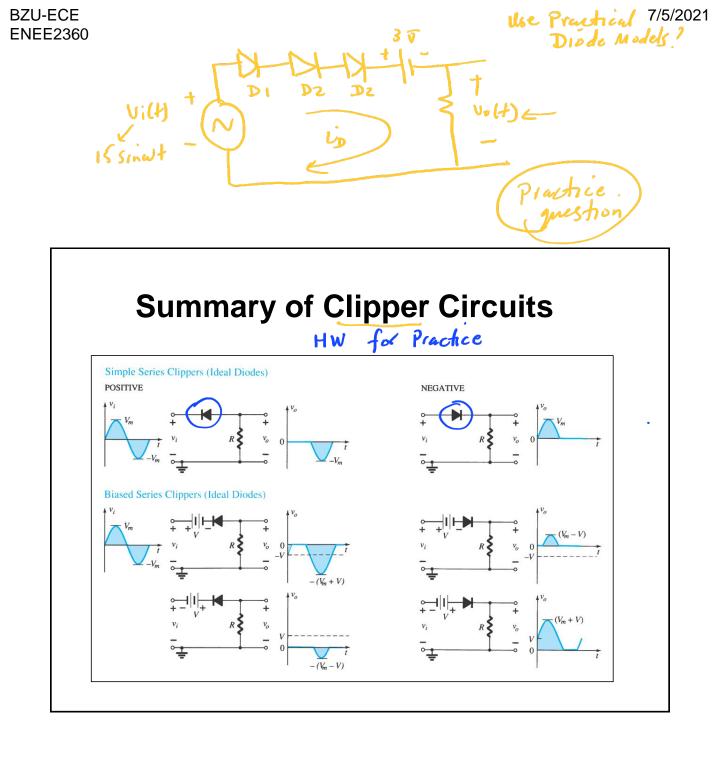


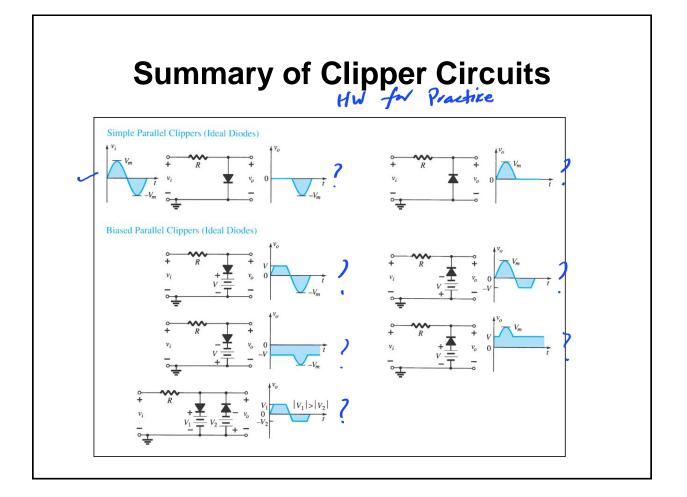
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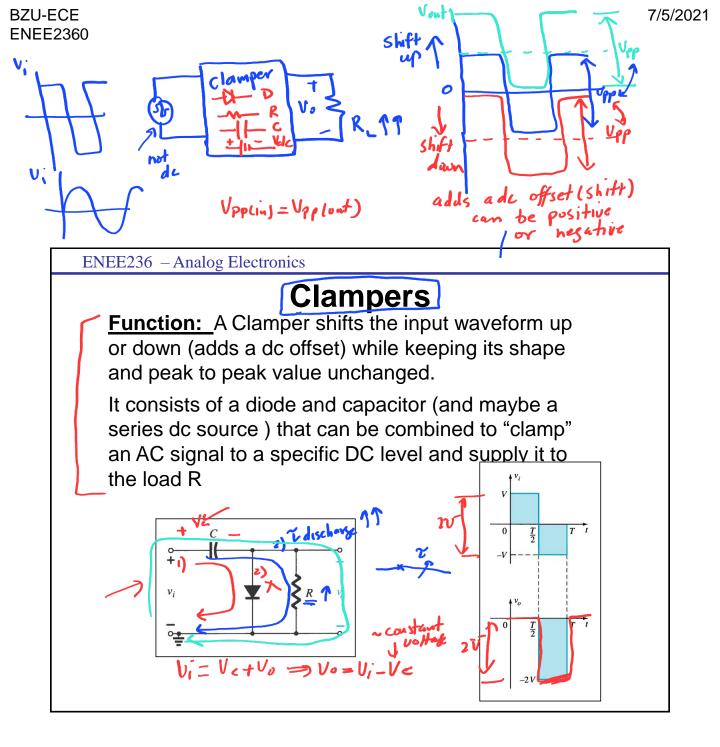














ENEE236 – Analog Electronics

Steps for Clamper Circuit Analysis

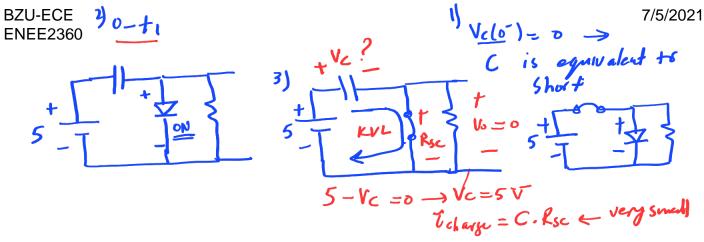
1) Start analysis by examining the portion of input that will forward bias the diode

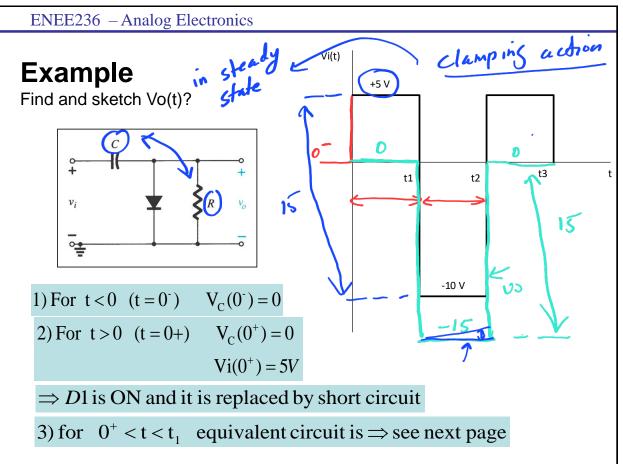
2) During diode On period, assume that the cap is charged instantaneously to a voltage level defined by surrounding network

3) During OFF period, assume the cap holds the established voltage level (i.e. it behaves as constant dc voltage source)

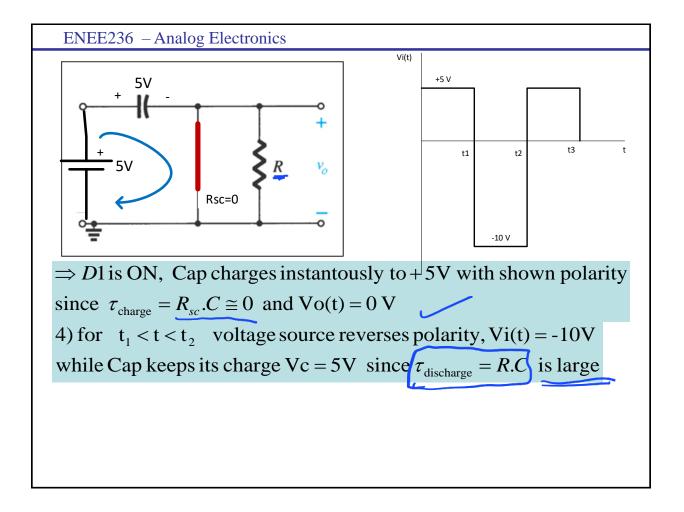
4) Consider value and polarity of Vo 🦛

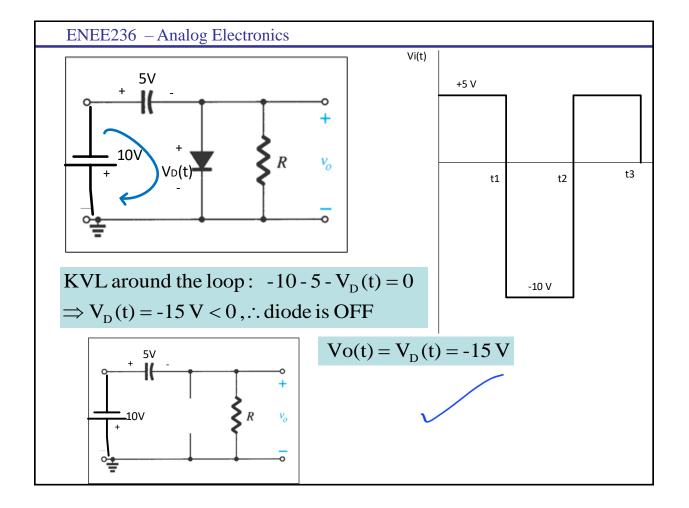
5) Check that total swing (peak to peak) of output equal swing of input.

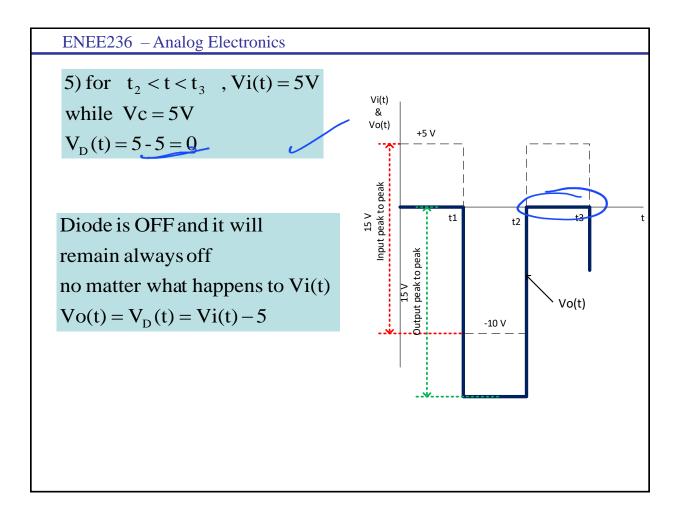




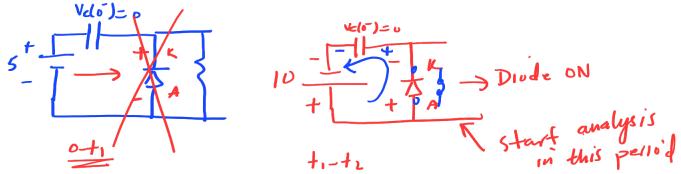
4)
$$t_1 - t_2 \rightarrow U_1 = -10$$
, $U_c = 5V$, Divide ??
 $v_0 + 5 - \frac{1}{10} + \frac{10 + 5 + V_D = 0}{V_D + 5 + V_D = 0}$
 $v_0 + \frac{10 + 5 + V_D = 0}{V_D - 10}$
 $V_D = -15 \ 20 - 7 \ D \ is \ ff$
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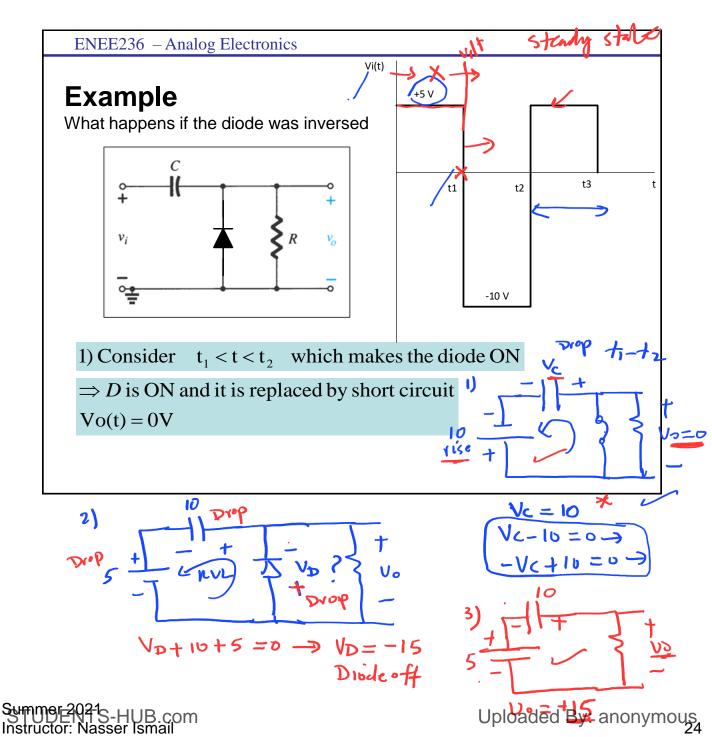




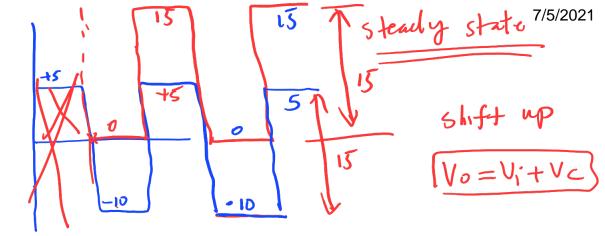


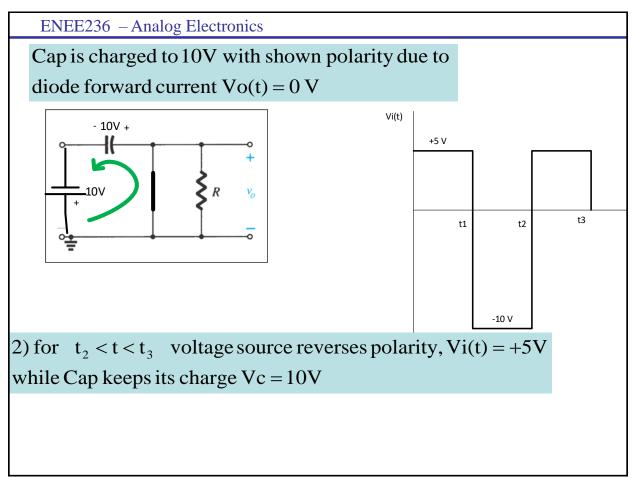


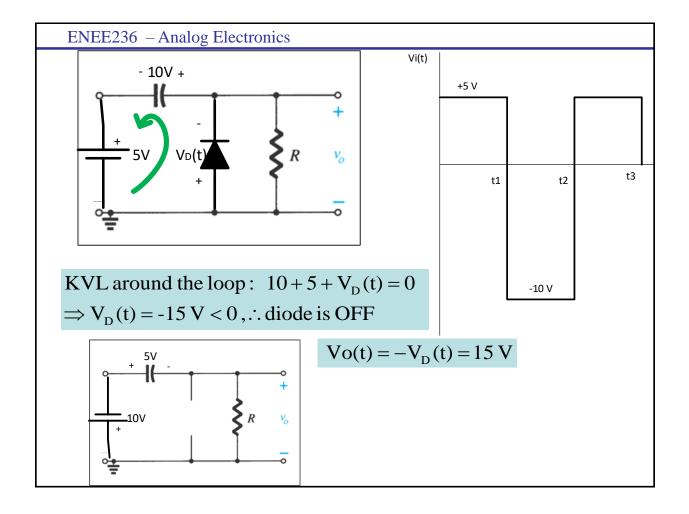


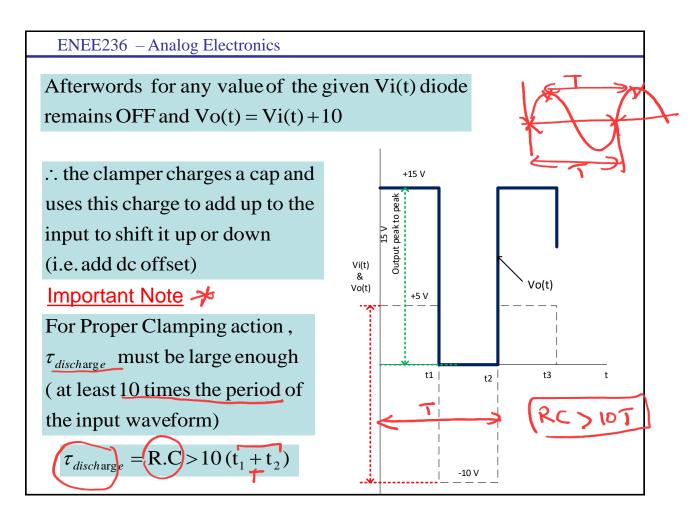


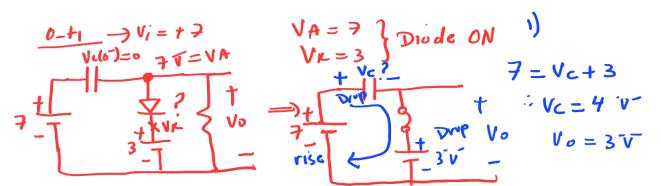


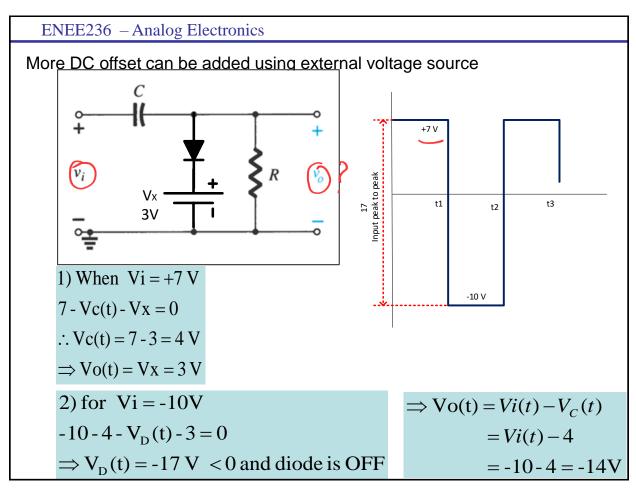


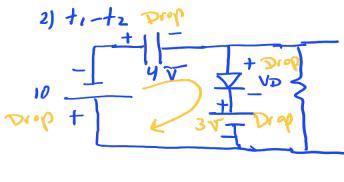


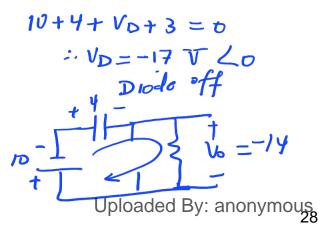


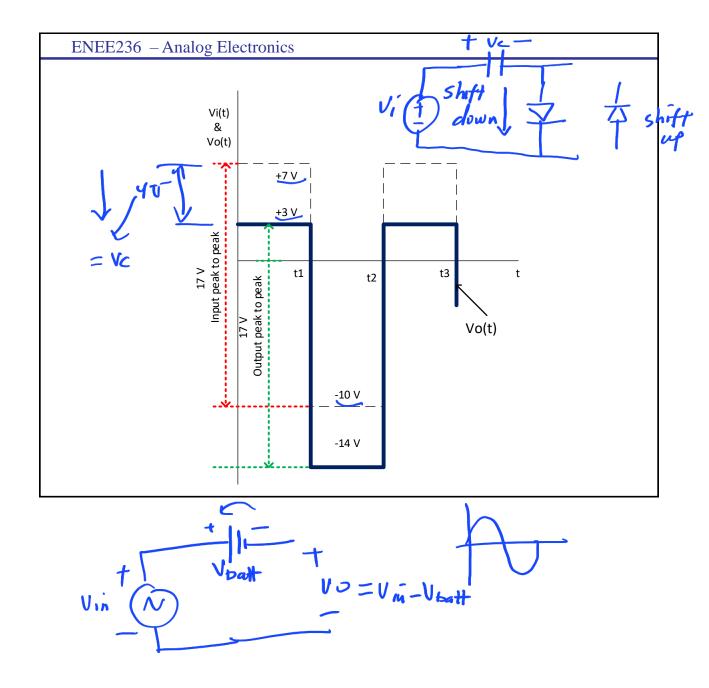














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