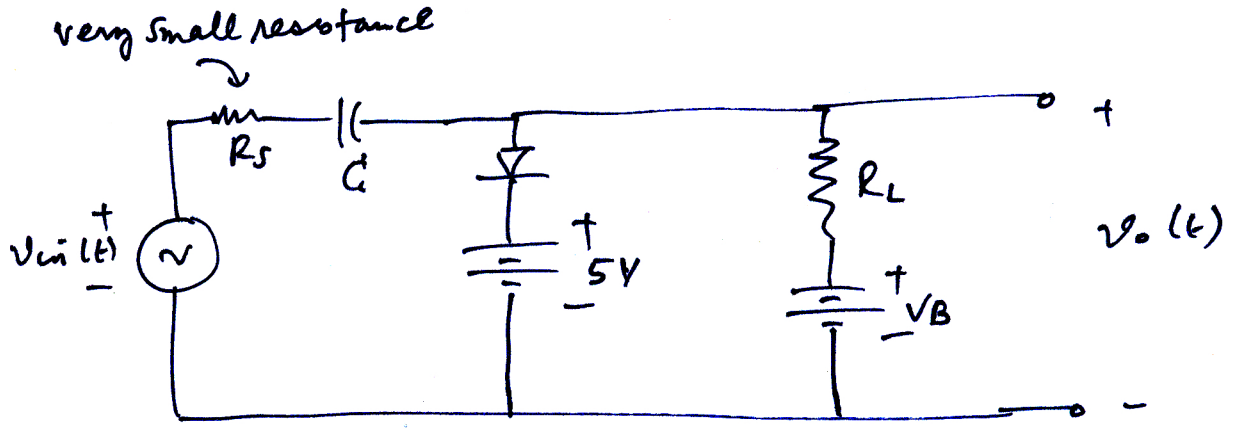
1

For a clamp circuit that works to clamp the input to an upper level of 5 volts we can use the following:



This was analyzed in class, and we concluded that, for an input of type $v_{in}(t) = V_d + V_a \sin(\omega t)$, as long as $V_a > 5 - V_B$ this circuit will work. In particular, since we always have $V_a \geq 0$, as long as $V_B > 5$ this circuit will work for all inputs of this type.

2

We next discussed small-signal ac equivalent circuit analysis of diode circuits. The discussion paralleled that in Section 10.8 of the text. The voltage-controlled attenuator circuit of Figure 10.40 of the text was discussed and its associated dc circuit equivalent (biasing circuit), shown in Figure 10.41 and small-signal ac equivalent circuit shown in Figure 10.42 were discussed.