

## Problem 2

In the circuit in Fig. 2, assume the time constant  $RC$  is very large so that the voltage across the capacitor does not discharge in short time periods.

Use the method of assumed states to find and sketch the output  $v_o(t)$  if the input is:

$$v_i(t) = 2 \sin(t)$$

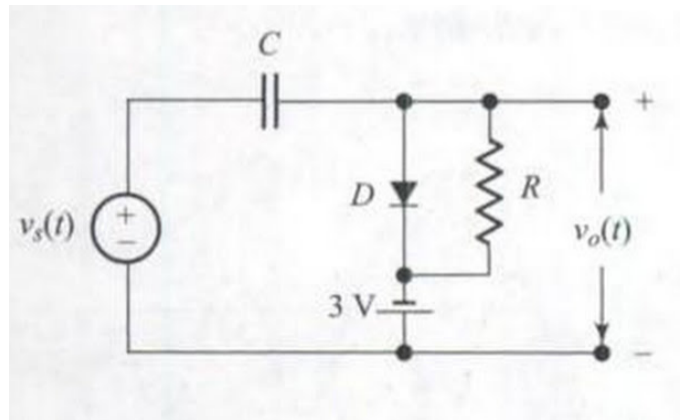


Figure 2