

Chapter 6, Solution 74.

$$RC = 0.01 \times 20 \times 10^{-3} \text{ sec}$$

$$v_o = -RC \frac{dv_i}{dt} = -0.2 \frac{dv}{dt} \text{ msec}$$

$$v_o = \begin{cases} -2\text{V}, & 0 < t < 1 \\ 2\text{V}, & 1 < t < 3 \\ -2\text{V}, & 3 < t < 4 \end{cases}$$

Thus $v_o(t)$ is as sketched below:

