

# **Chapter 6, Solution 77.**

$$i = i_R + i_C$$

$$\frac{v_i - 0}{R} = \frac{0 - v_o}{R_F} + C \frac{d}{dt}(0 - v_o)$$

$$R_F C = 10^6 \times 10^{-6} = 1$$

$$\text{Hence } v_i = - \left( v_o + \frac{dv_o}{dt} \right)$$

Thus  $v_i$  is obtained from  $v_o$  as shown below:

