## Chapter 5, Solution 61.

Determine  $v_0$  in the circuit of Fig. 5.88.

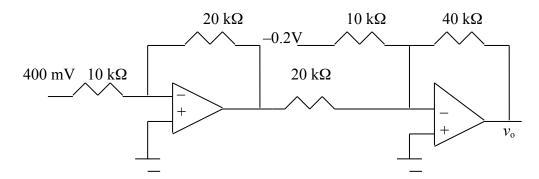


Figure 5.88 For Prob. 5.61.

## **Solution**

The first op amp is an inverter. If  $v_1$  is the output of the first op amp,

$$V_1 = -(200/100)(0.4) = -0.8 \text{ V}$$

The second op amp is a summer

$$V_o = -(40/10)(-0.2) - (40/20)(-0.8) = 0.8 + 1.6$$
  
= **2.4** V.