Chapter 5, Solution 37.

Determine the output of the summing amplifier in Fig. 5.74.
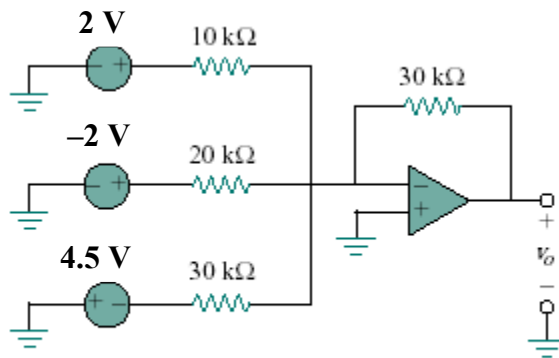

Figure 5.74
For Prob. 5.37.

Solutio

$$V_o = -\left[\frac{R_f}{R_1}V_1 + \frac{R_f}{R_2}V_2 + \frac{R_f}{R_3}V_3\right]$$

$$= -\left[\frac{30}{10}(2) + \frac{30}{20}(-2) + \frac{30}{30}(-4.5)\right]$$

$$V_o = \mathbf{1.5\ V}.$$