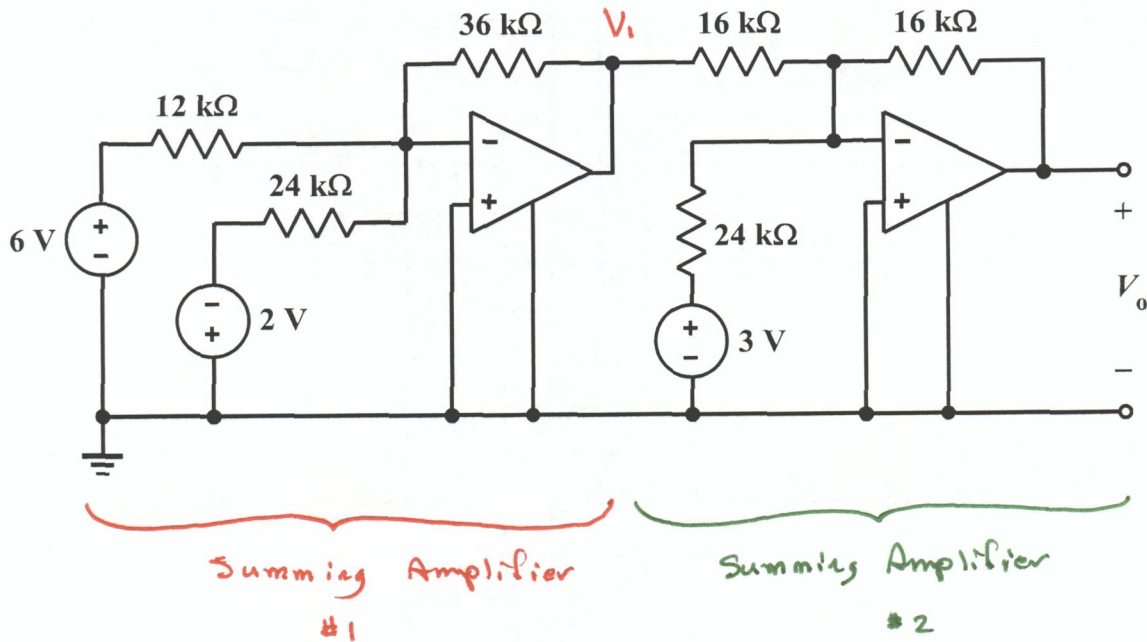


EE 2240
Problem #10

Assume the op amps are ideal, and determine the output voltage, V_o .



$$\begin{aligned}
 V_1 &= -\frac{36\text{k}\Omega}{12\text{k}\Omega}(6\text{V}) - \frac{36\text{k}\Omega}{24\text{k}\Omega}(-2\text{V}) \\
 &= -15\text{V}
 \end{aligned}$$

$$\begin{aligned}
 V_o &= -\frac{16\text{k}\Omega}{16\text{k}\Omega}V_1 - \frac{16\text{k}\Omega}{24\text{k}\Omega}(3\text{V}) \\
 &= 13\text{V}
 \end{aligned}$$