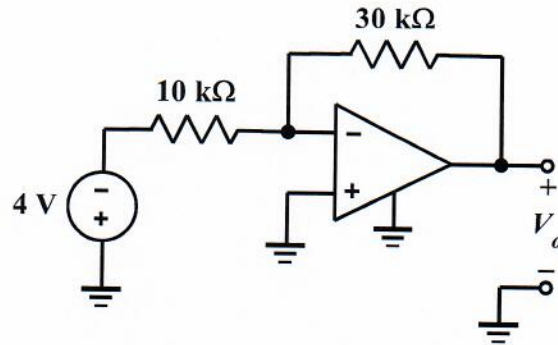


EE/EET 2240  
Homework Problem 032



The OpAmp is ideal. Determine:

(a) The value of  $V_o$ .

*This is an inverting amplifier.*

$$V_o = - \frac{30 \text{ k}\Omega}{10 \text{ k}\Omega} (-4 \text{ V}) = 12 \text{ V}$$

(b) The amount of power supplied by the independent voltage source.

$$\frac{(4 \text{ V})^2}{10 \text{ k}\Omega} = 1.6 \text{ mW}$$