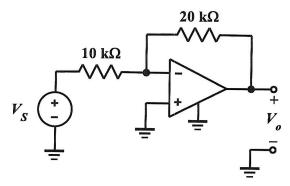
EE 2240 Homework Problem #052



The OpAmp is ideal. If $V_o = 22 \,\mathrm{V}$, what is the value of V_s ?

This is an inverting amplifier, with
$$V_0 = -\frac{20bn}{10bn} \cdot V_s = -2V_s$$

$$\frac{1}{22V} = -2V_s$$

$$\frac{1}{2}V_s = -\frac{22}{2}V = -11V$$