

Special Problem 4.6-6

For the circuit below, **I** have done the **DC analysis** and determined that both MOSFETs are in **saturation**, and likewise determined that the small-signal parameters for **both** MOSFETs are $g_m = 2.0 \text{ mA/V}$ and $r_o = \infty$.

The capacitors are **very large**.

1. **Carefully** and **precisely** draw the resulting **small-signal circuit**.
2. Determine the **small-signal gain** $A_{v_o} = v_o/v_i$ of this amplifier.

