

Special Problem 4.6-5

The capacitors in the circuit below are **very large**.

I have completed the **DC analysis**—I determined that $V_{GS} = 4.0 \text{ V}$, and **CHECKED** that the MOSFET is in **saturation**.

Finish the remainder of the analysis, to:

1. Determine and carefully draw the simplified small-signal circuit (be complete and precise!).
2. Determine the **small-signal voltage gain** ($A_v = v_o/v_i$) of the **amplifier** below.

