

**Special Problem 5.5-2**

The transistor in the circuit below has a DC drain-to-source voltage of 6.0 volts.

The transistor is operating in the ideal region for small signal amplification.

The output resistance  $r_o$  of the transistor is 50 K ohms.

What is the small signal gain of this amplifier ( $A_v = v_o/v_i$ )?

