

**Special Problem 5.5 - 3**

The circuit below has been designed as an amplifier, so that we know it is saturation.

The threshold voltage of the transistor is  $V_T = 1.0$  Volts,  $K = 1.0 \text{ mA/V}^2$ , and  $\lambda = 0.0$ .

The capacitors are very large.

Find the small-signal gain  $A_v = v_o/v_i$  of this amplifier.

