

### Special Problem 4.3-13

For  $Q_N$ , we know that  $V_{DS} = 5.0 \text{ V}$ .

Assume  $Q_P$  is in **triode** mode.

Assume  $Q_N$  is in **saturation** mode.

A. Determine the value of the unknown **gate voltage**  $V_G$  for transistor  $Q_P$ .

B. Determine each if **each** assumption was correct.

