

**Special Problem 4.4 - 1**

Select the value of  $R$  in the circuit below so that both conditions

$$v_O = 4.8 \text{ V if } v_I = 0.0 \text{ V (PMOS in cutoff)}$$

and

$$v_O = 0.0 \text{ V if } v_I = 5.0 \text{ V (PMOS in triode)}$$

are satisfied.

