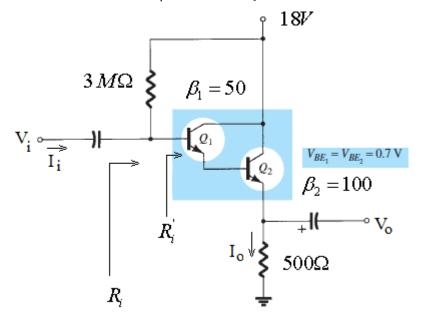
EE101

Tutorial Sheet -7

(09 Oct 2014)

1. For the circuit shown, find the input resistance R_i and the voltage gain $A_v = \frac{V_o}{V_i}$. Assume $V_T = 26$ mV and neglect the effect of transistor output resistance r_o .



2. Find the current I for the circuit shown below. The transistor has $\beta = 100$. Assume that the transistor is in active region and $V_{BE} = 0.7 \ V$.

