## Special Problem 5.6-4

I have completed the DC analysis of this amplifier.
The collector current is $I_{C}=5.0 \mathrm{~mA}$, and the BJT is in the active mode.


Continue with this analysis and determine:

1. The small-signal open-circuit voltage gain of the amplifier.
2. The small-signal output resistance of the amplifier.
3. The small-signal input resistance of the amplifier
