In the circuit shown, the transistor has ** = 150, and operates at room temperature. The source *vs(t)* is a signal source with frequencies in the passband for this amplifier.

1. Find the voltage gain *vo/vs* for this amplifier.
2. Find the current gain, *io/is*, for this amplifier, in dB.
3. Find the output resistance seen by the load *RL* for these frequencies.
4. Find the input resistance seen by the source for these frequencies.

