An NPN BJT common-collector amplifier is shown. Assume the parameters of the transistor are $\beta_F = \beta_o = 100$, $V_T = 25\text{mV}$, and $V_A = \infty$. Find the numerical value for the small signal voltage gain, $v_{out}/v_{in}$, the input resistance, $R_{in}$, the output resistance, $R_{out}$, and the current gain, $i_{out}/i_{in}$.