

ECE 3337 – Lab Report 1

BJT Amplifiers – Arnav Goyal – 251244778

Prelab

Only final results for each question are shown here, complete work can be found at the end of this report.

Common-Emitter Amplifier

1.1

N/A

1.2

DC Biasing the CE Amplifier as noted in the question gives the following resistor values

Resistor	Expression	Numerical Value [Ω]	Std Lab Value [Ω]
R_1	$\frac{V_{cc} - V_B}{10 \cdot i_B}$	33.200 k	33.000 k
R_2	$\frac{V_B}{10 \cdot i_B}$	6.800 k	6.800 k
R_C	$\frac{V_{cc} - V_C}{i_C}$	800	820
R_E	$\frac{V_E}{i_E}$	199	200