Lab 6: Common-Base Amplifier Danilo Zelenovic March 19, 2022

Pre-lab

P1.

Diagram

Description automatically generated

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Vb | Vc | Ve | Ib | Ic | Ie |
| 4.615 V | 10.369 V | 3.915 V | 5.513 uA | 0.827 mA | 0.833 mA |

Table P1(a). Quiescent voltages and currents of the CB amplifier.

|  |  |  |  |
| --- | --- | --- | --- |
| Avo | Av | Ri | Ro |
| -146.39 | -93.84 | 37.70 | 5.6k |

Table P1(b). Parameters of CB amplifier.

P2.

A screenshot of a computer

Description automatically generated

Graph P2. All graphs on one, as stated was allowed. Source, input, and output voltage waveforms of the CB amplifier, with Rs = 50 ohms, RL = 10k Ohms.