**BASIC ELECTRONICS**

**EXPERIMENT 8**

**DATA AND RESULTS**

|  |  |  |
| --- | --- | --- |
| **Step** | **Result** |  |
| **1** | **VE** | 0.95V |
| **IE** | 0.95mA |
| **R’e** | 27.37 Ohms |
| **2** | **Vin** | 10V |
| **Phase Relationship** |  |
| **Vo** | 9.7 V |
| **AVo** | 0.97 |
| **3** | **Zo** | 768 ohms |
| **5** | **Vs** | 5V |
| **Av** | 0.212 |
| **6** | **rs** | 98 ohms |
| **Zin** | 8.2k ohms |
| **7** | **VL(pk-topk)distorted** | 9 V |

**REVIEW QUESTIONS**

1. Does the input resistance of a common-base amplifier, high or low?

2. Is it possible to have a same voltage gain for a common-base and common emitter amplifier?

3. What is the maximum current gain in a common-base amplifier?

**Answers to Review Questions**

1.

2.

3.

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**DISCUSSION OF FINDINGS:**