



American International University- Bangladesh

Department of Electrical and Electronic Engineering

EEE 2104: Electronic Devices Lab

Lab Report

Semester: Fall 2022-2023

Section: T

Experiment Number: 5

Title: Study of Transistor Characteristics in Common Emitter Amplifier.

Submitted to-

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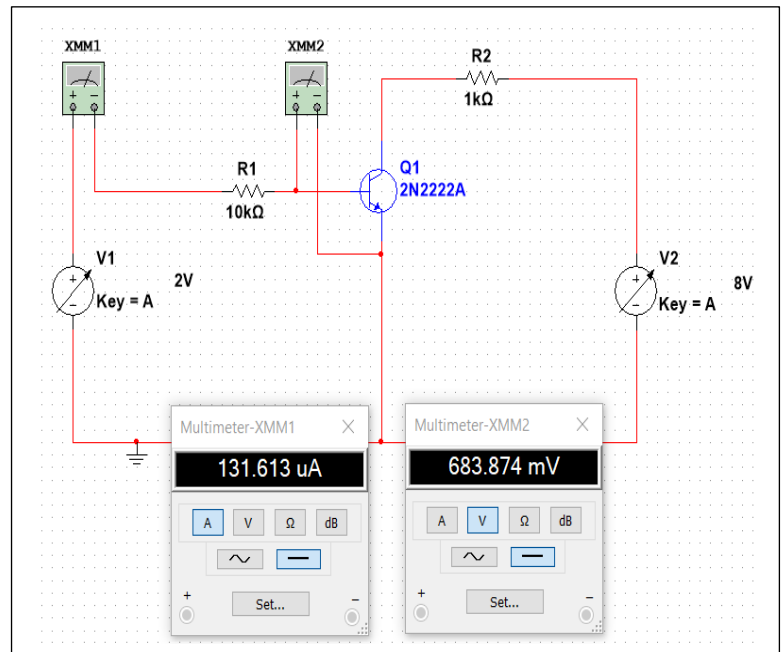
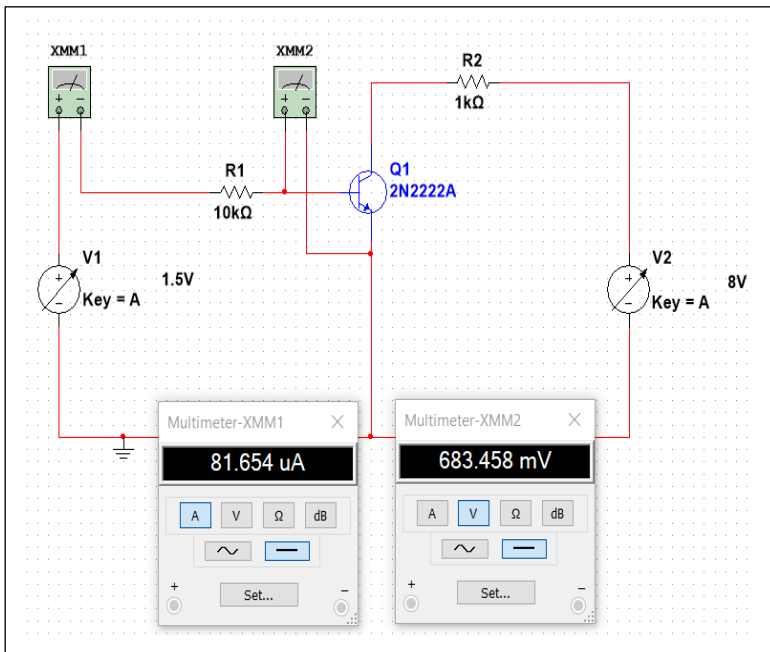
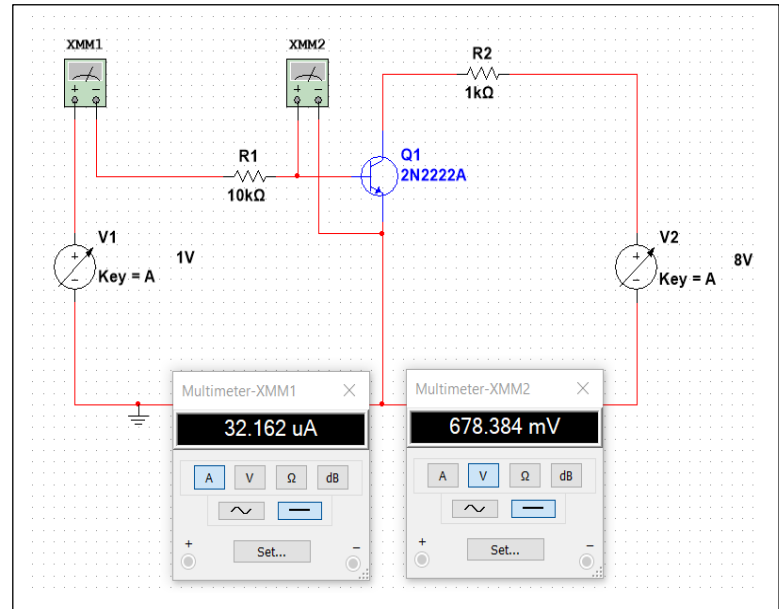
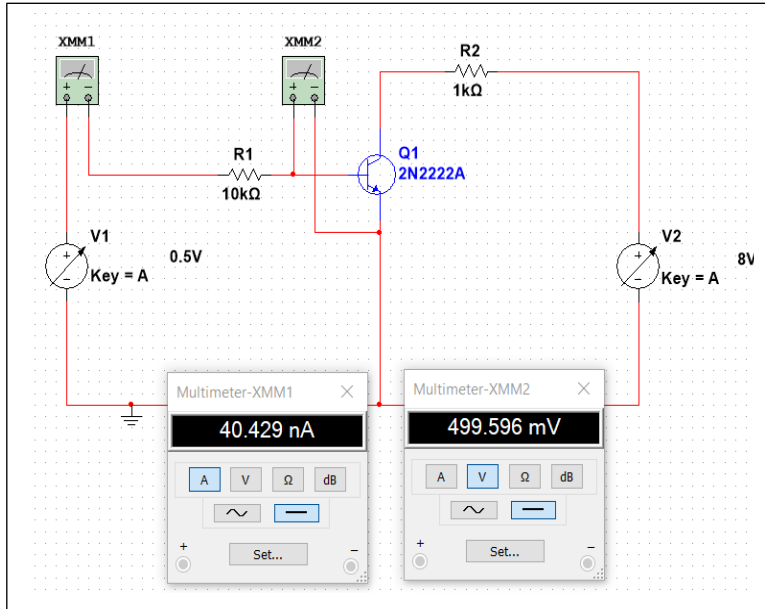
Submitted on: 11/7/2022

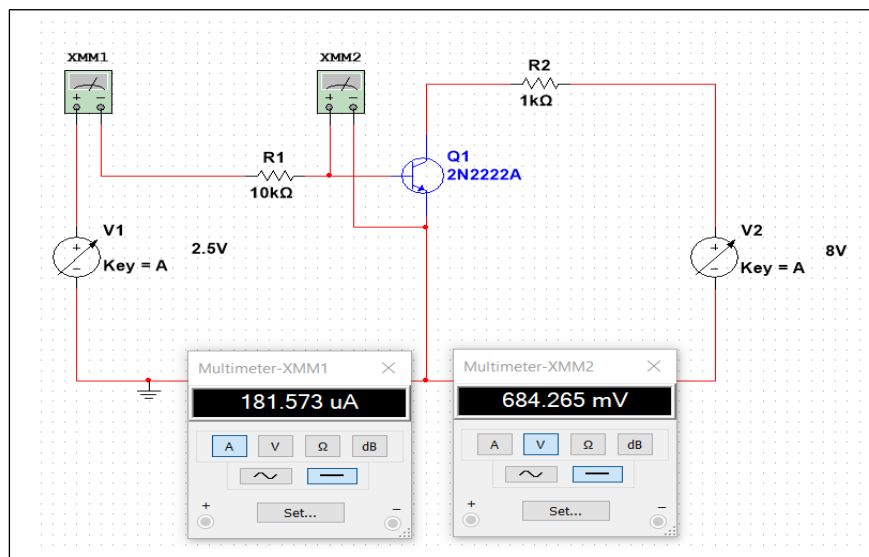
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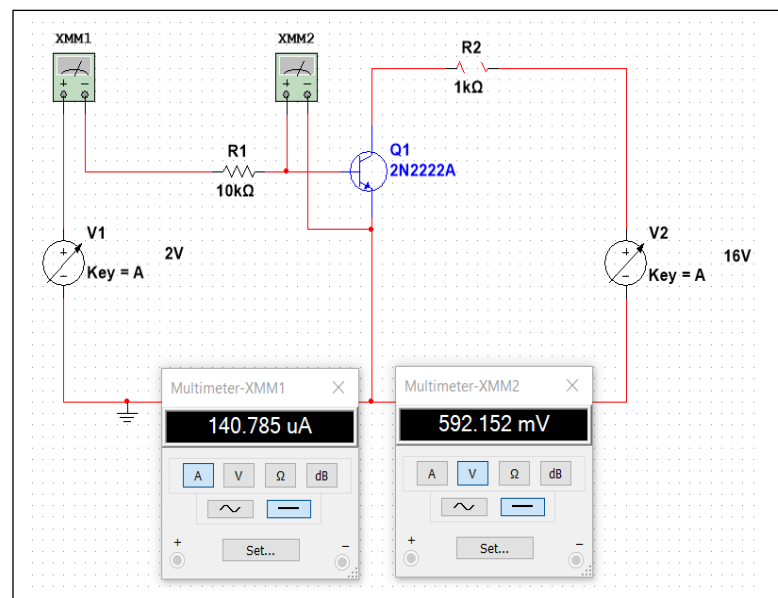
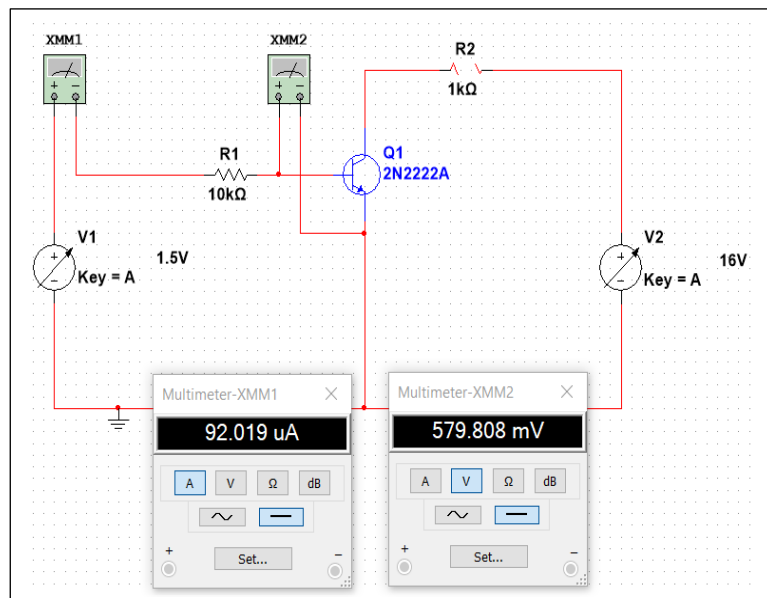
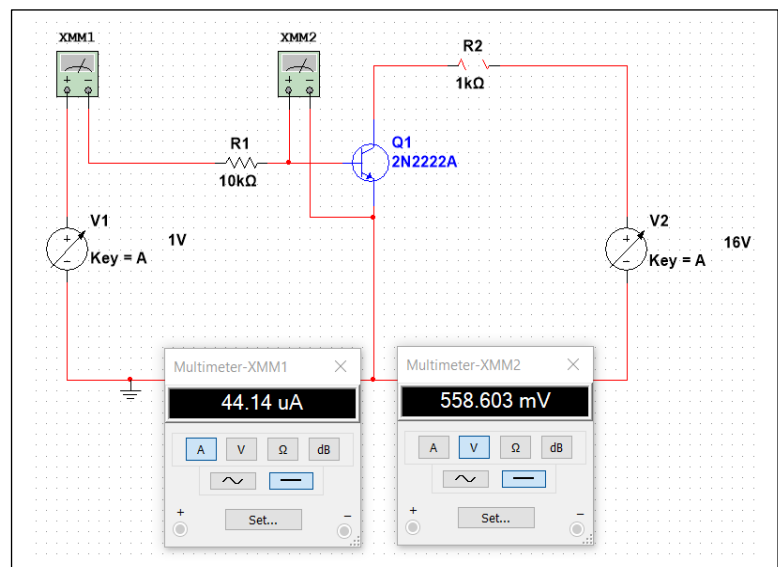
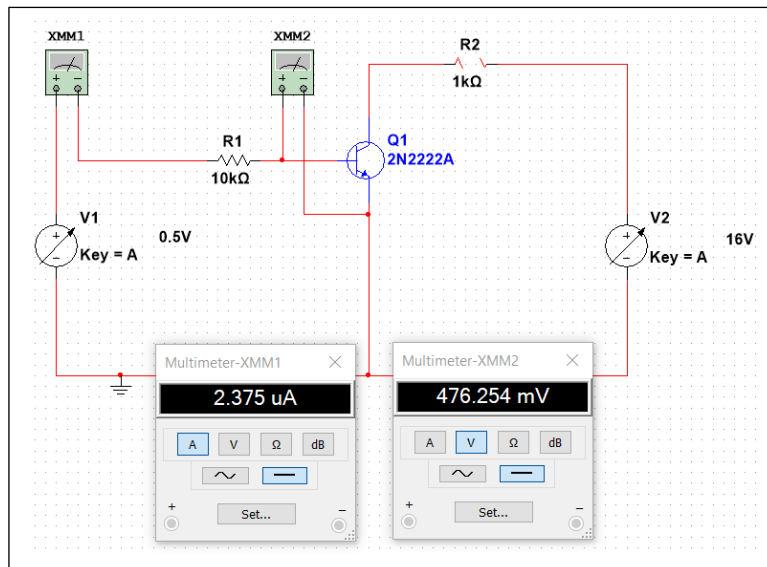
Simulation and Measurement

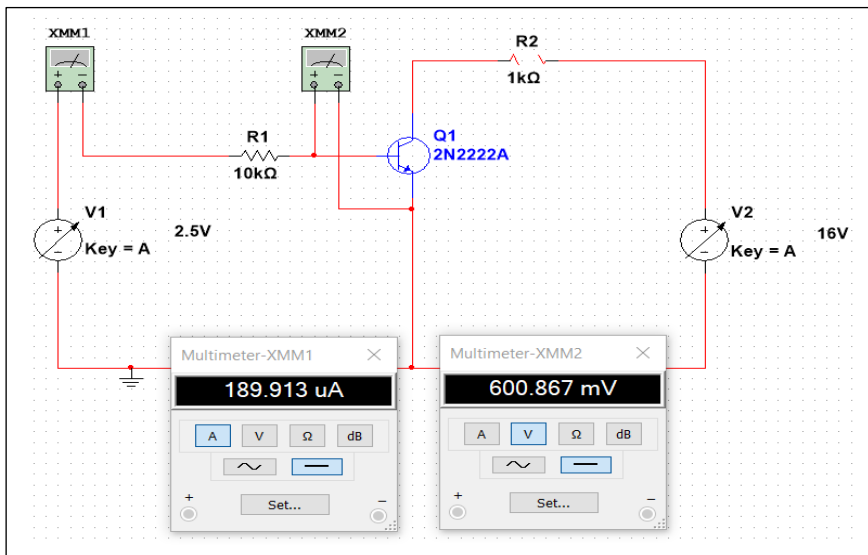
Input Characteristics For $V_{cc} = 8V$



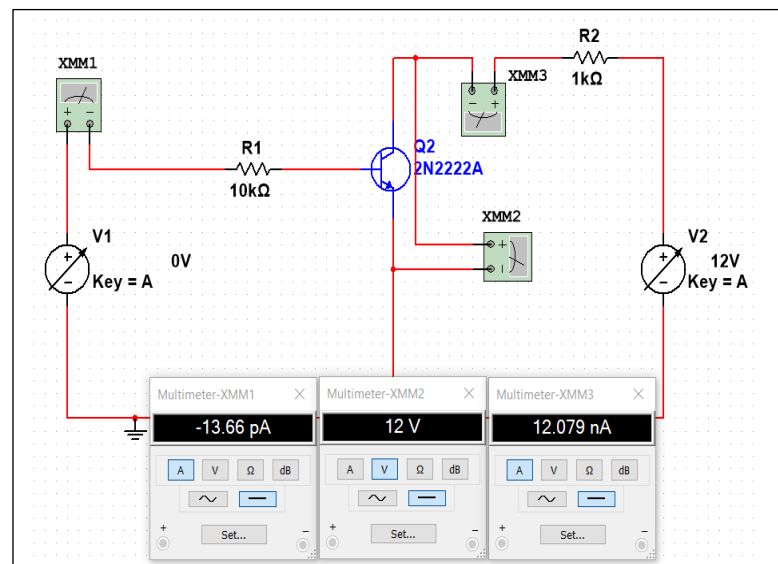
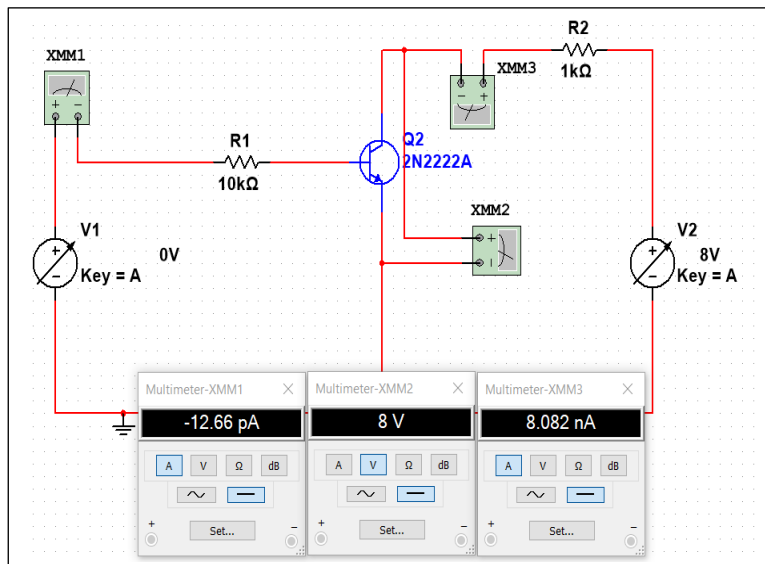
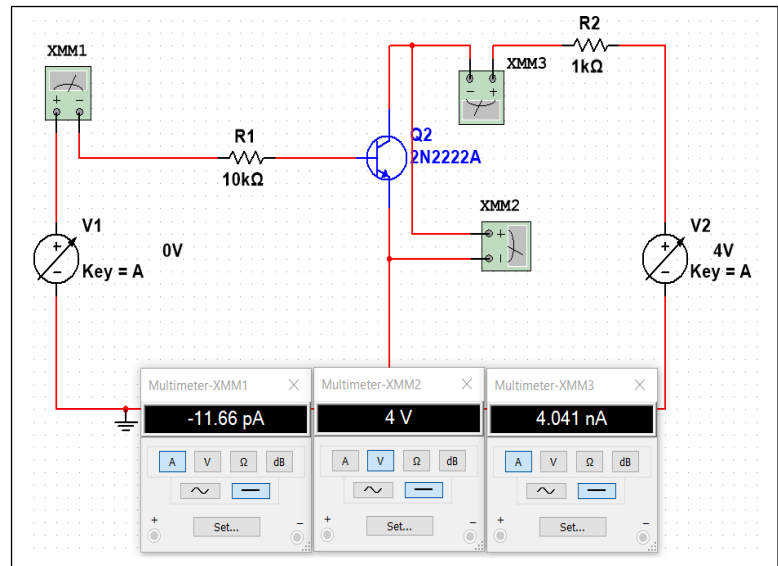
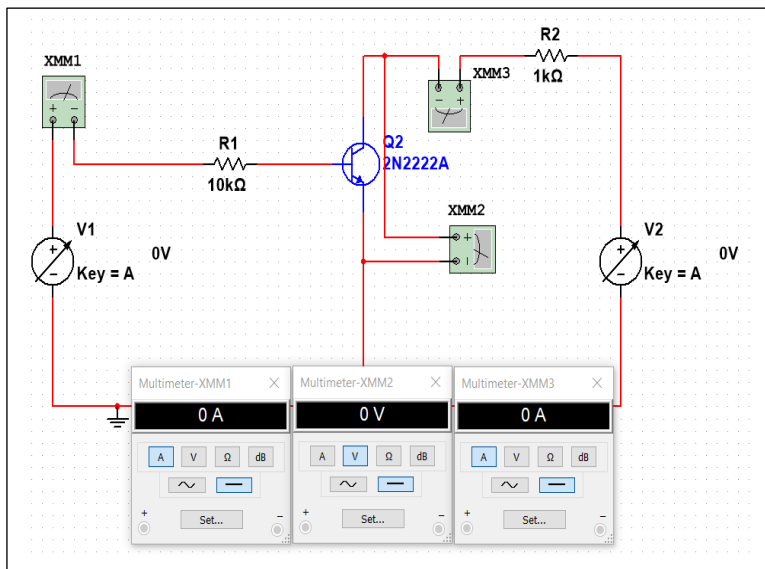


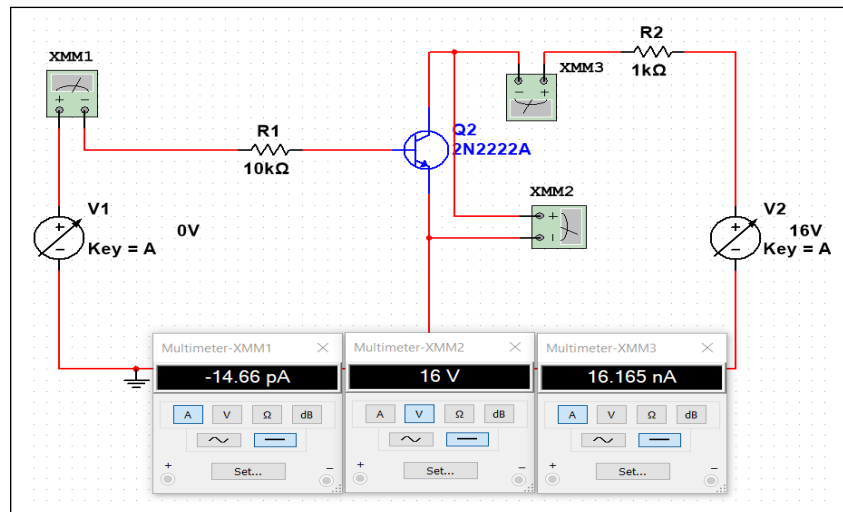
For $V_{cc} = 16V$



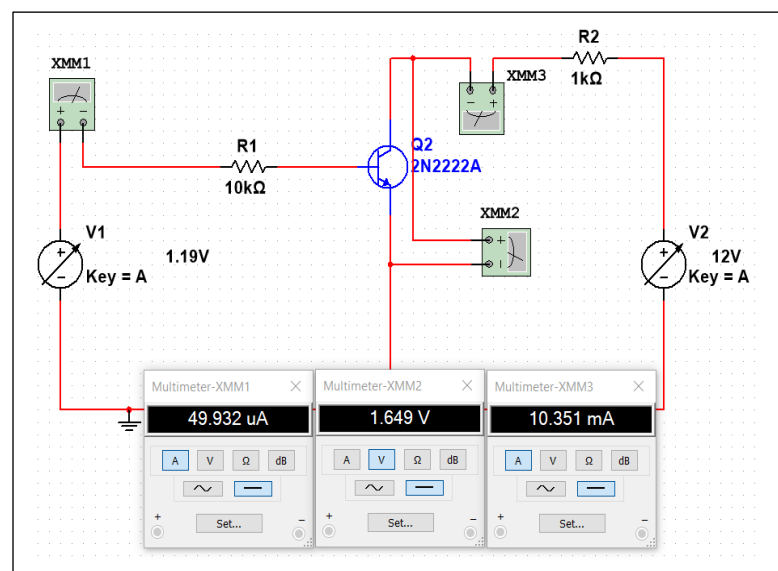
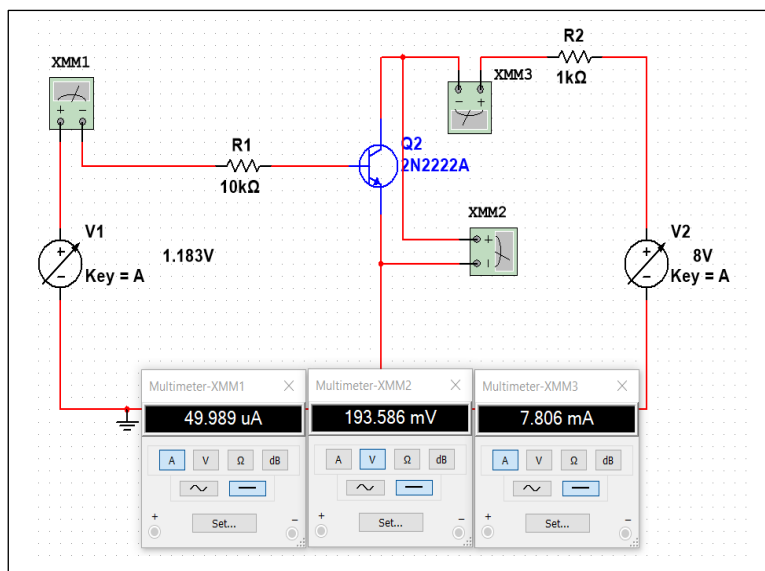
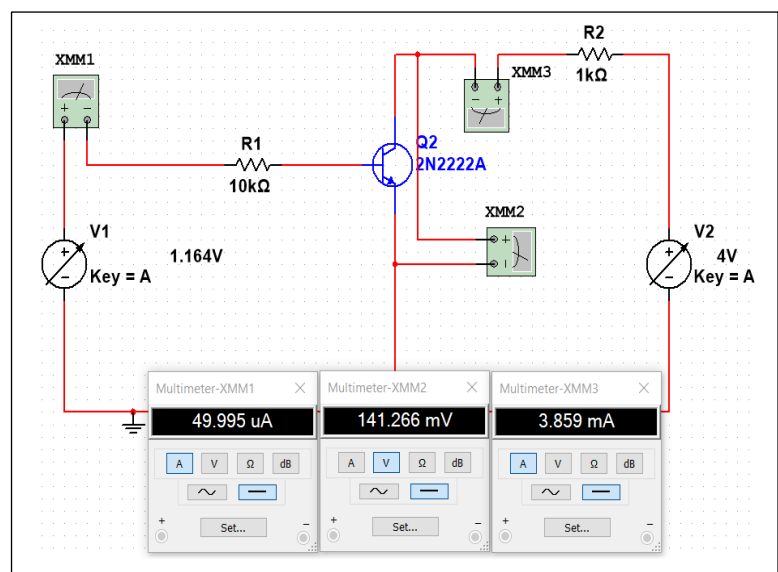
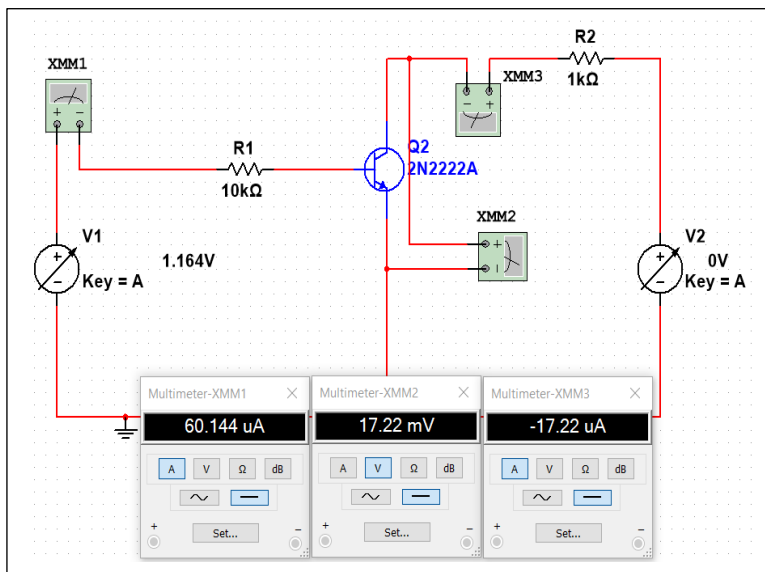


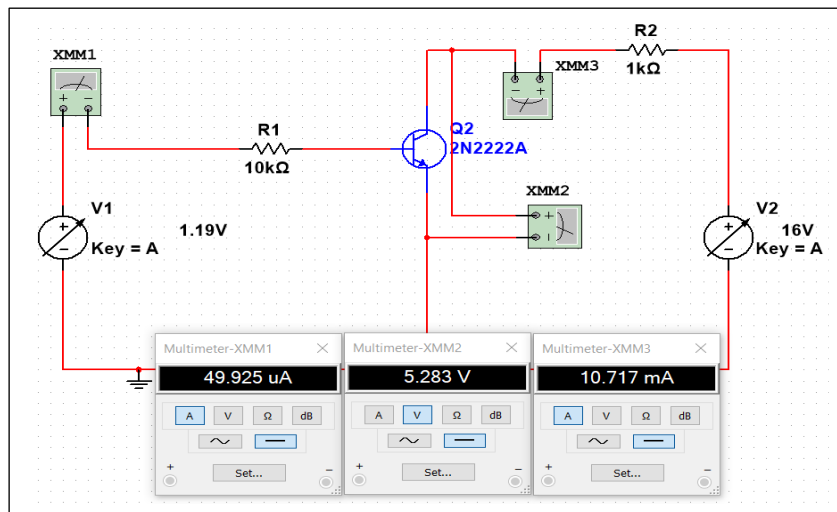
Output Characteristics For $I_B = 0 \mu\text{A}$



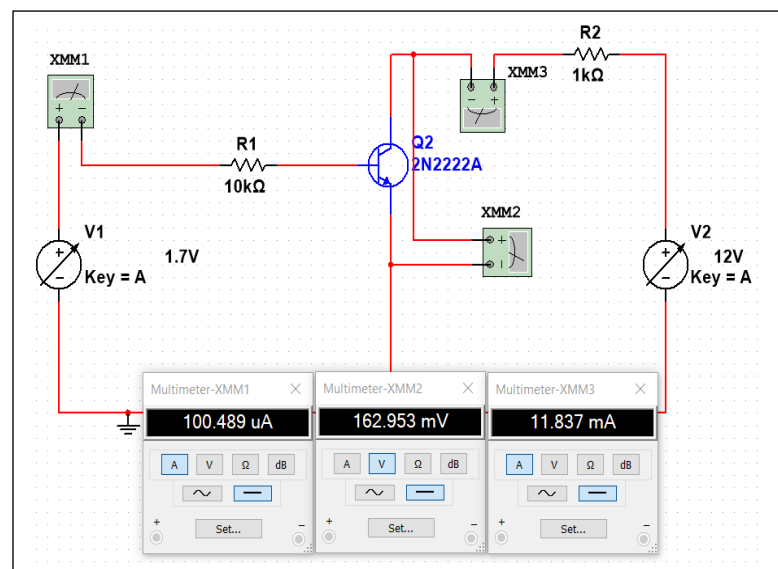
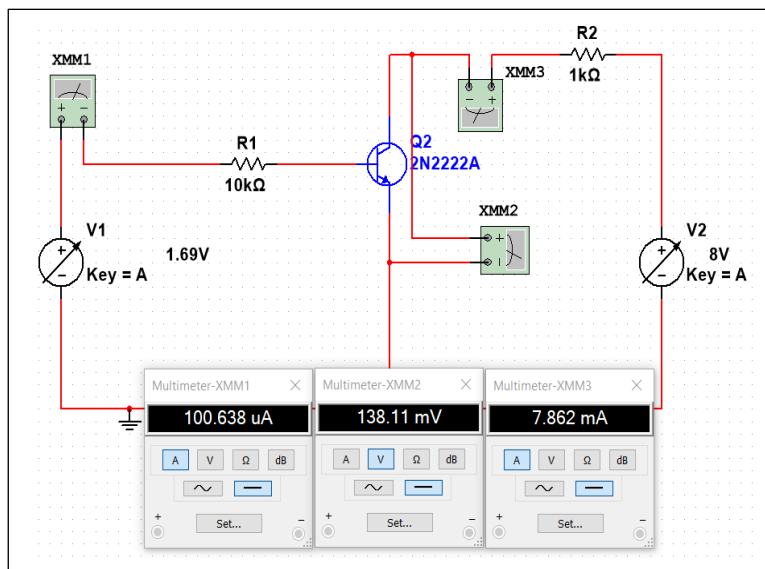
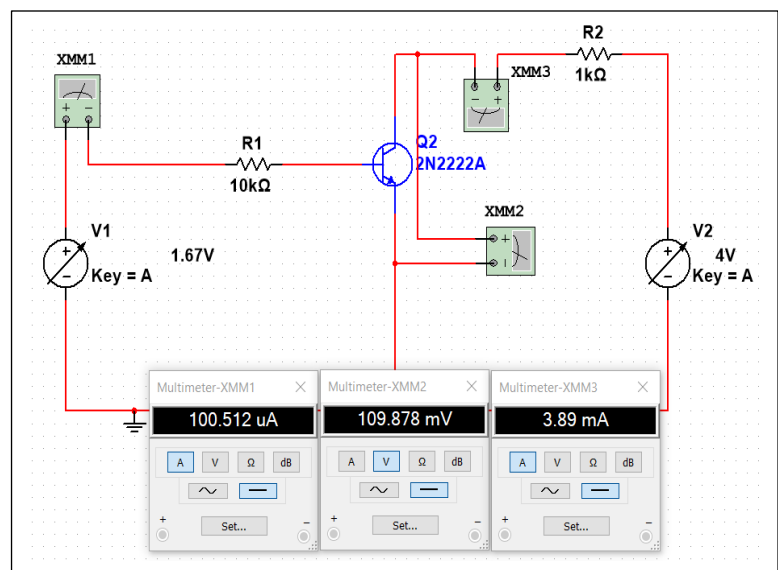
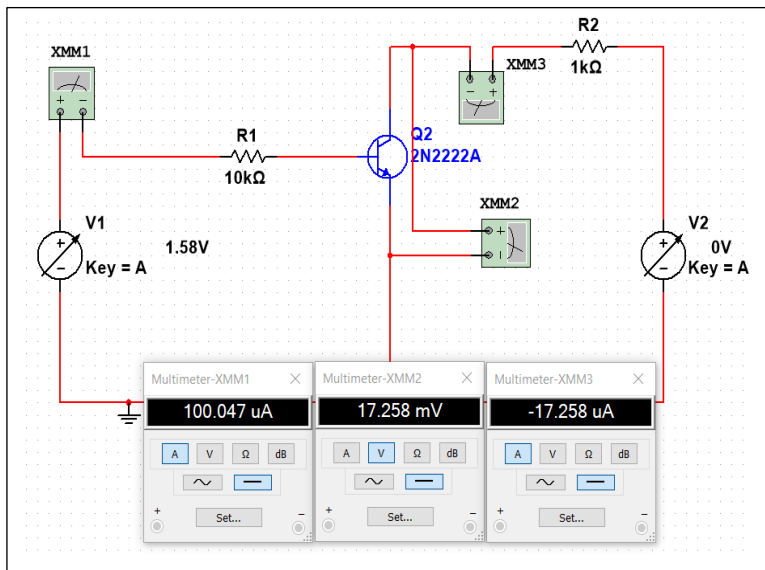


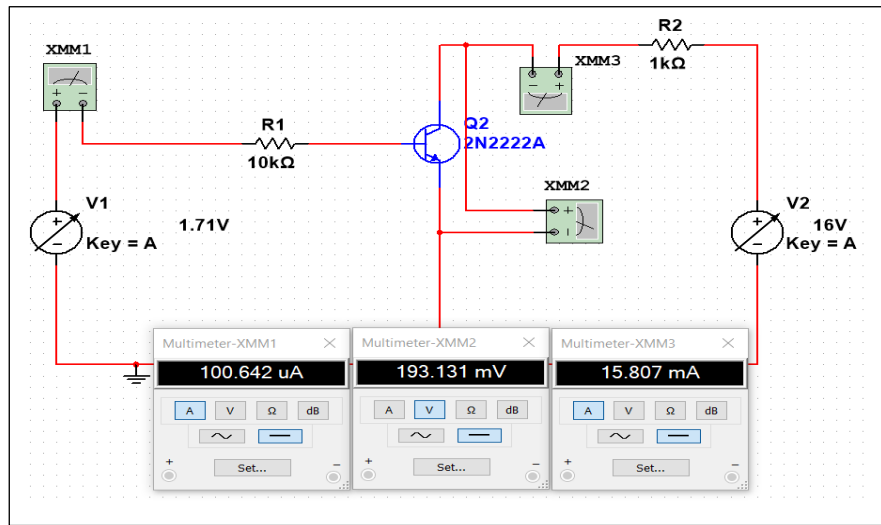
For $I_B = 50 \mu A$



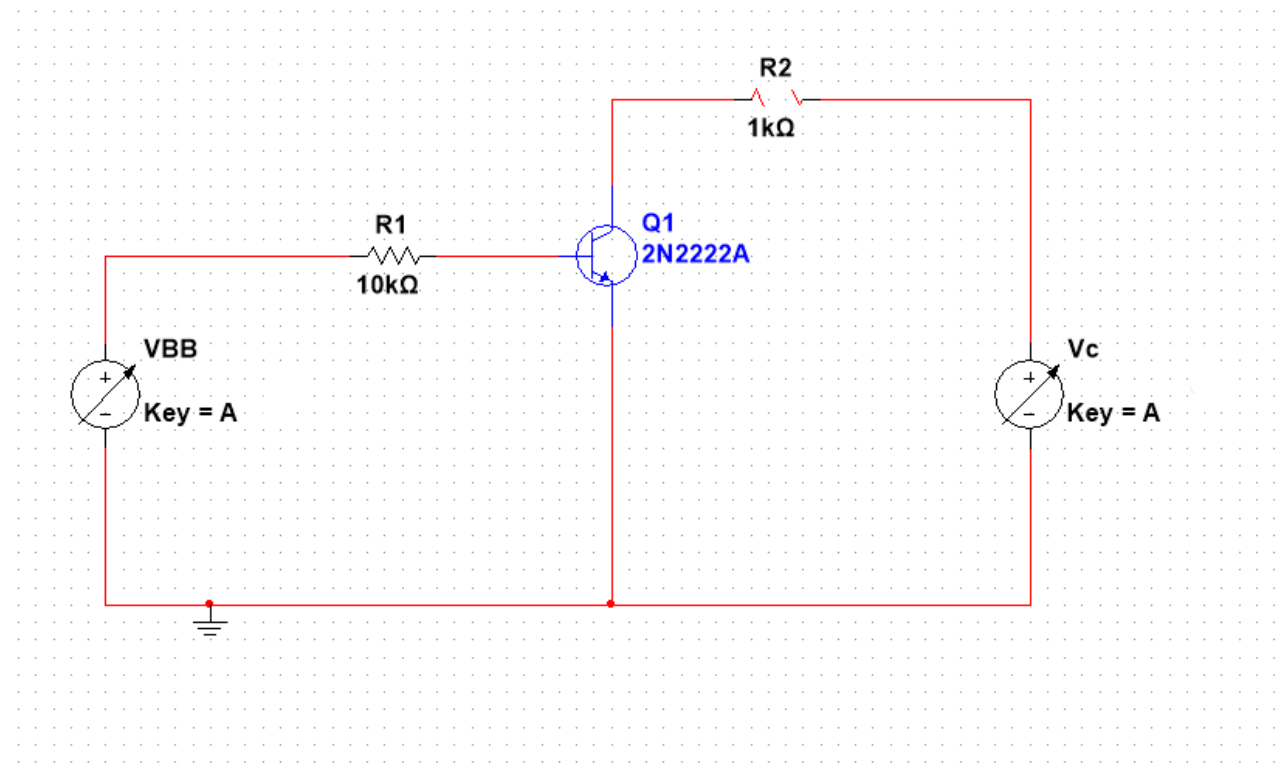


For $I_B = 100 \mu\text{A}$

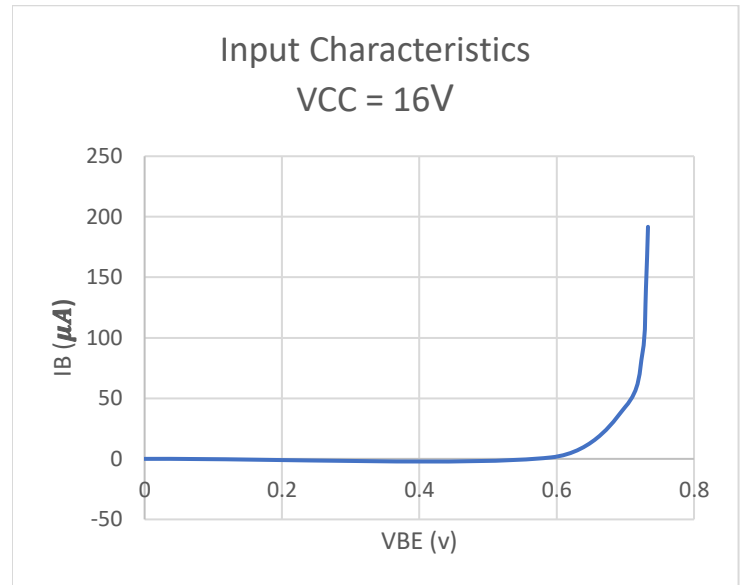
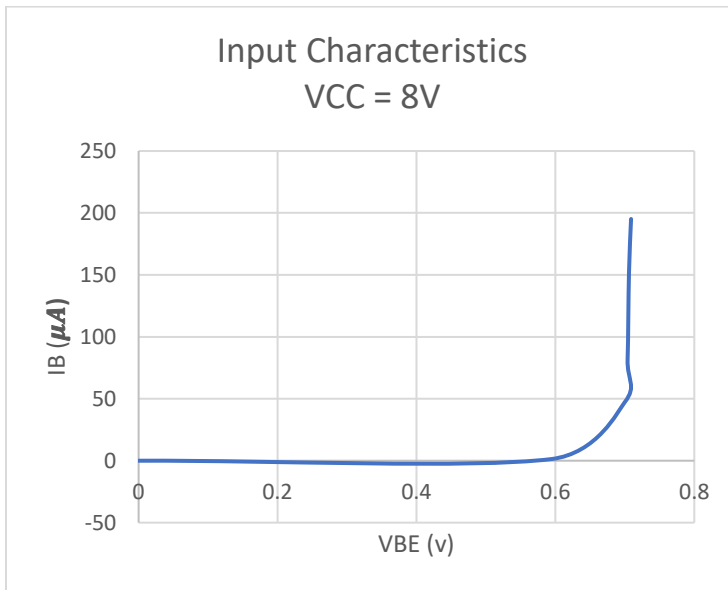




Circuit Diagram:



Input Characteristics



Output Characteristic

