

Faculty of Engineering and Technology

Electrical Engineering Department

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ELECTRONIC LAB

Pre Lab

Experiment#7

Power Amplifiers

**Student’s Name: Hani shweiki**

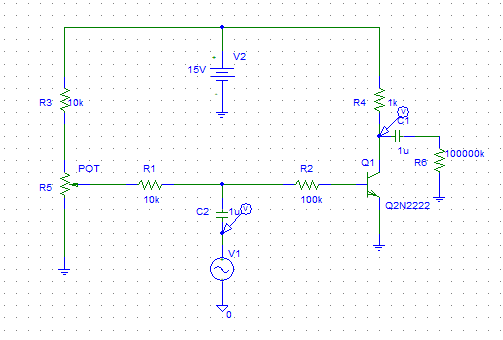
**Student’s No : 1160212**

**Instructors :Dr.** mohammad ju’beh

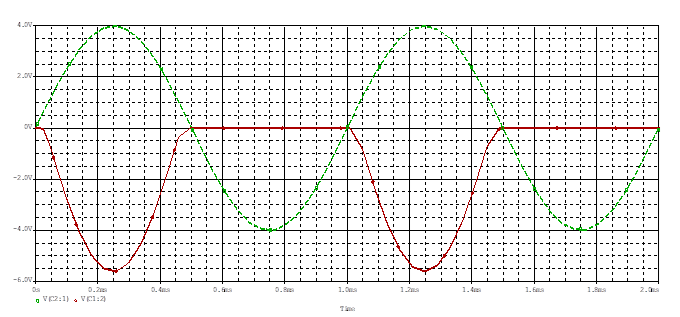
Eng.Amjad

**Section : 2**

***I. THE CLASSES OF POWER AMPLIFIER***

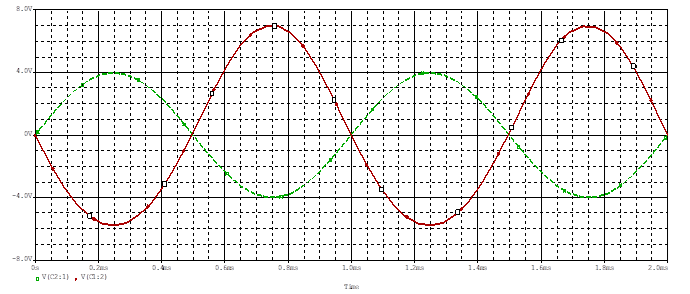


* The input voltage with Vp=4voltand Fin=1 kHz , the output shown below:



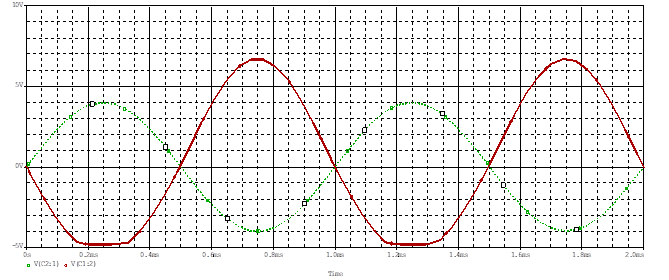
the class of the amplifier in this case is class B.

* The set = 0.24 , and the out put shown as



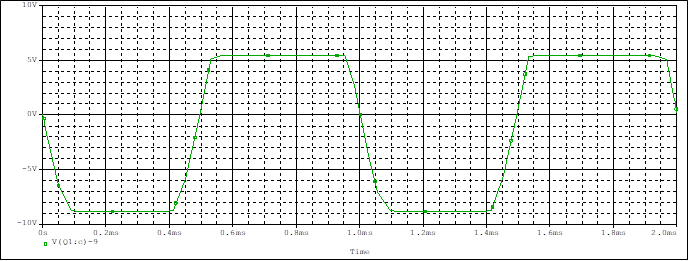
Class A power amplifier, because the input and the output are out of phase by 180 degree

* the set=0 and the out put shown as:



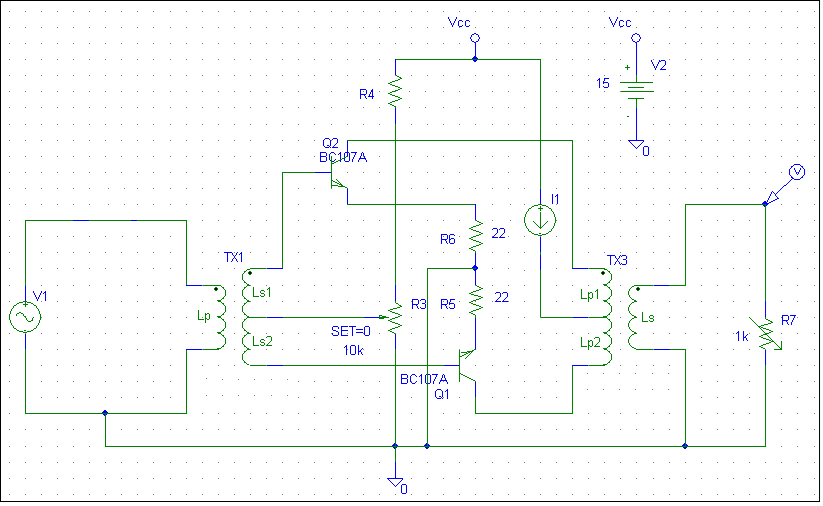
this is a class AB power amplifier

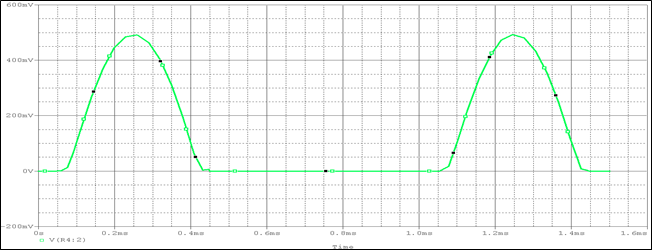
* bias voltage =0.71



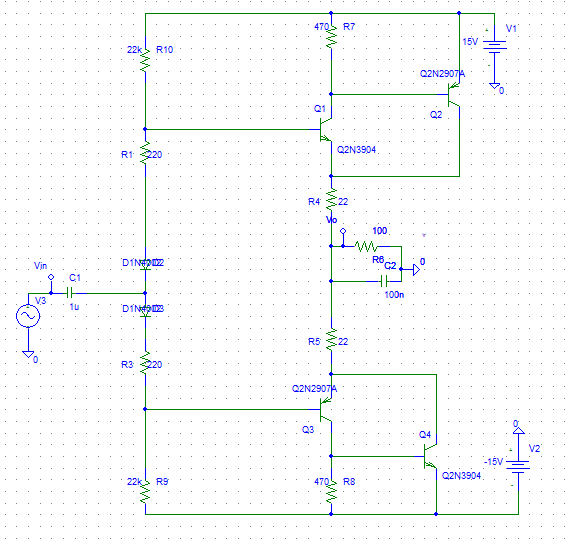
***II. PUSH-PULL AMPLIFIER:***

We connect the circuit shown in figure

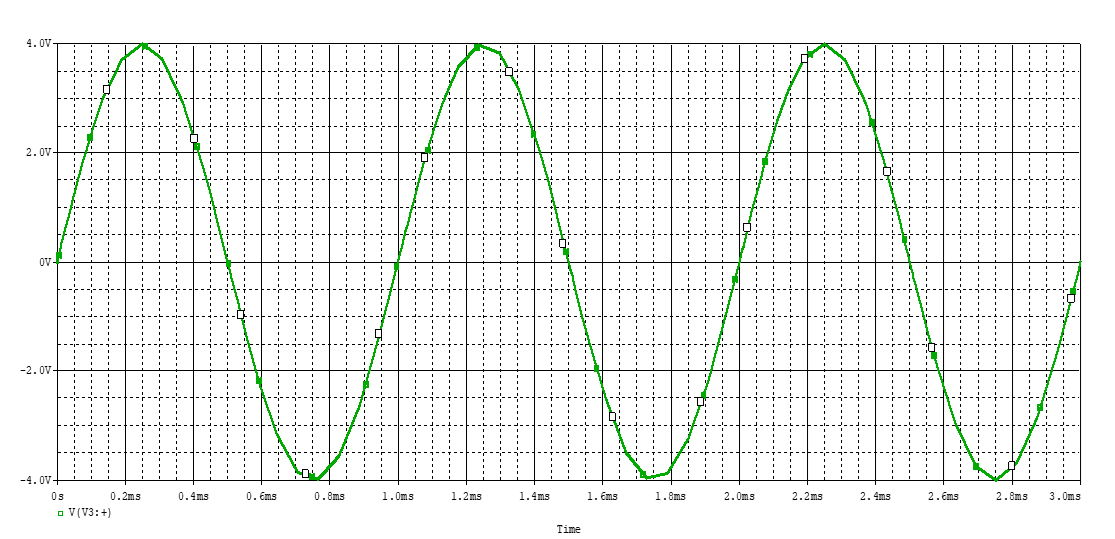




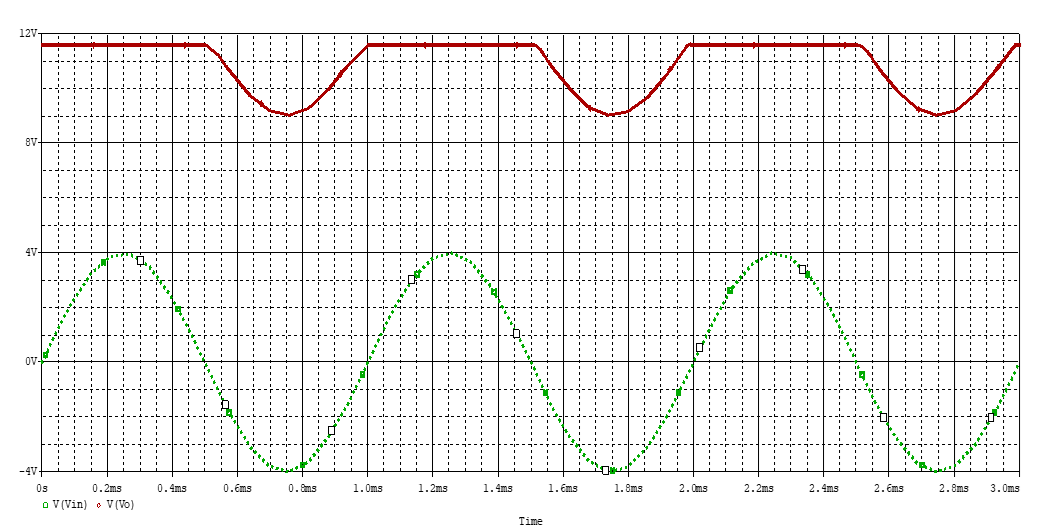
The circuits diagram:



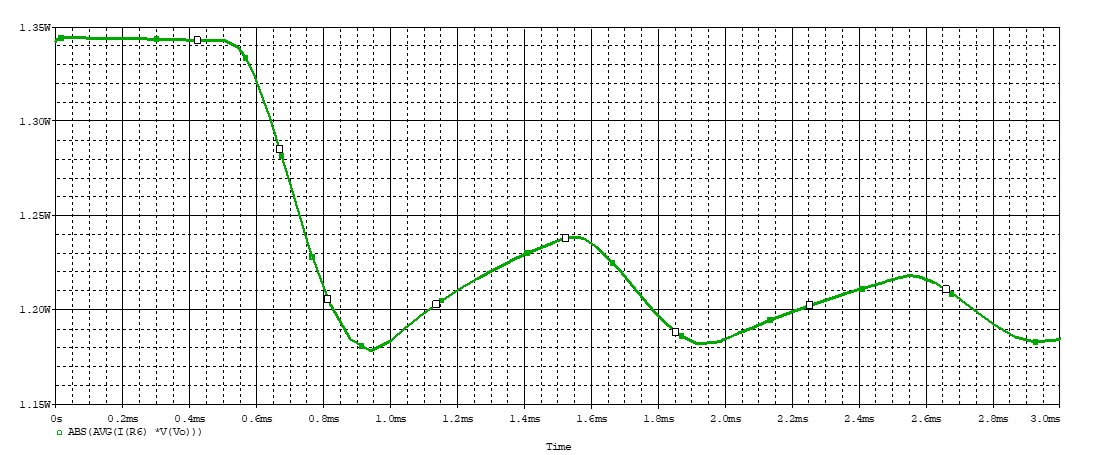
The input:



The input and the output of the circuits:



The output power =VL\*IL :



The average power is equal to 1.25 W, and the max power = 1.38 W.