

BIRZEIT UNIVERSITY

Faculty of Engineering and Technology Electrical and Computer Engineering Department Electronics LAB (ENEE3102) Pre-LAB of Experiment #7 Power Amplifiers

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Date:

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Section: #1

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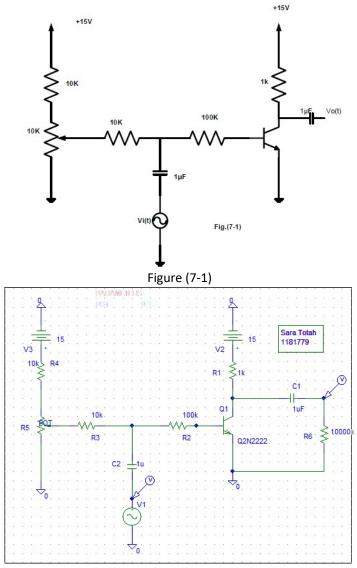
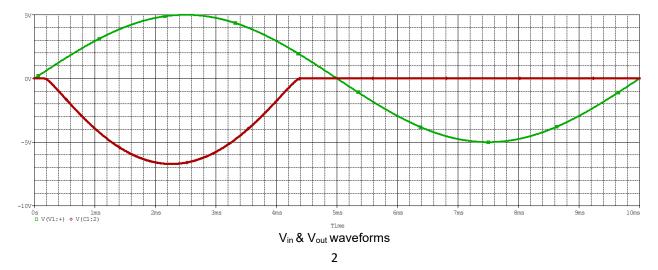


Figure (7-1): PSPICE simulation

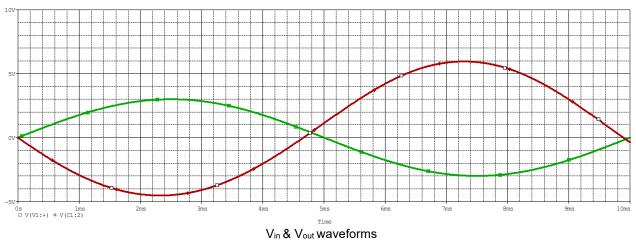
- 1. For  $V_{in}$  = 10volts P-P
- Potentiometer set = 1
- > This is a class B power amplifier.



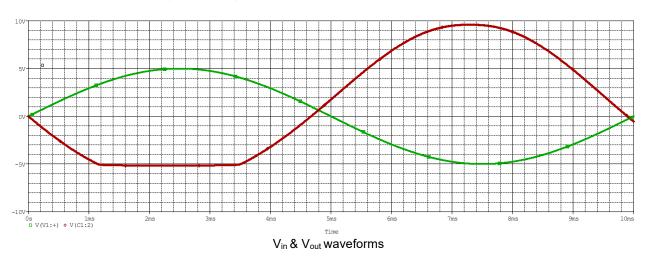
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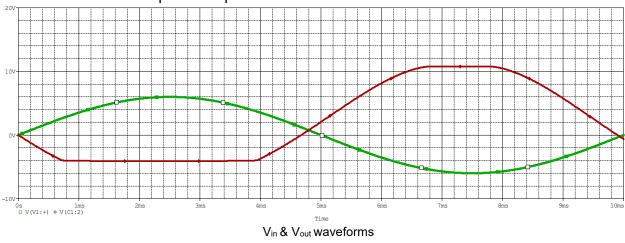
- 2. For  $V_{in}$  = 6volts P-P
- Potentiometer set = 0.3
- > This is a class B power amplifier.



- 3. For  $V_{in}$  = 10volts P-P
- Potentiometer set = 1
- > This is a class AB power amplifier.



- 4. For V<sub>in</sub> = 12volts <sub>P-P</sub>
- Potentiometer set = 1
- > This is a class AB power amplifier.



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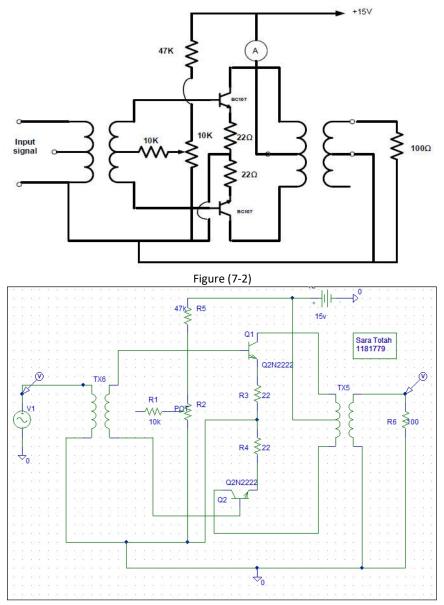
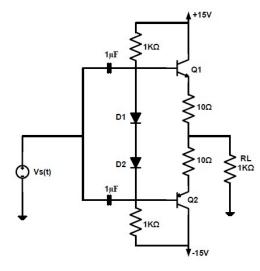


Figure (7-2): PSPICE simulation

#### III. COMPLEMENTARY PUSH-PULL AMPLIFIER.





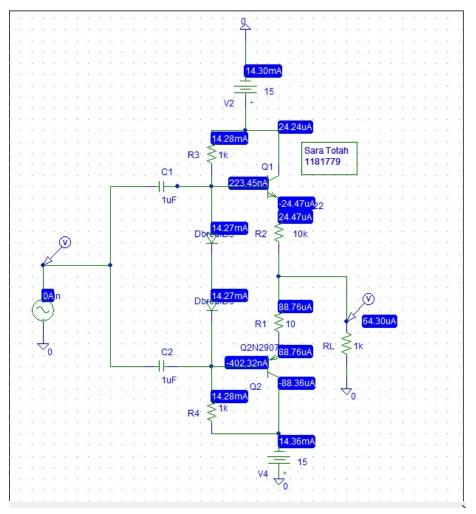
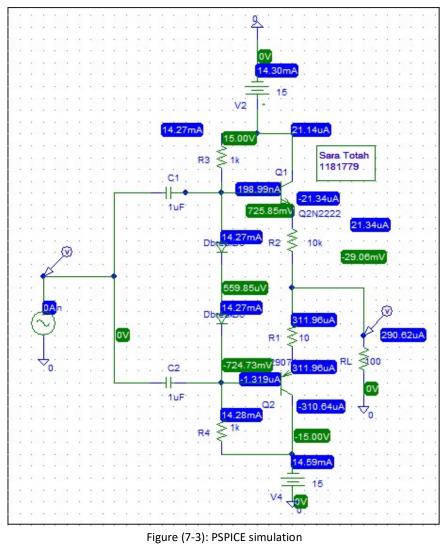


Figure (7-3): PSPICE simulation

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. R<sub>L</sub> = 100Ω