



ECE 312 - Analog Circuits

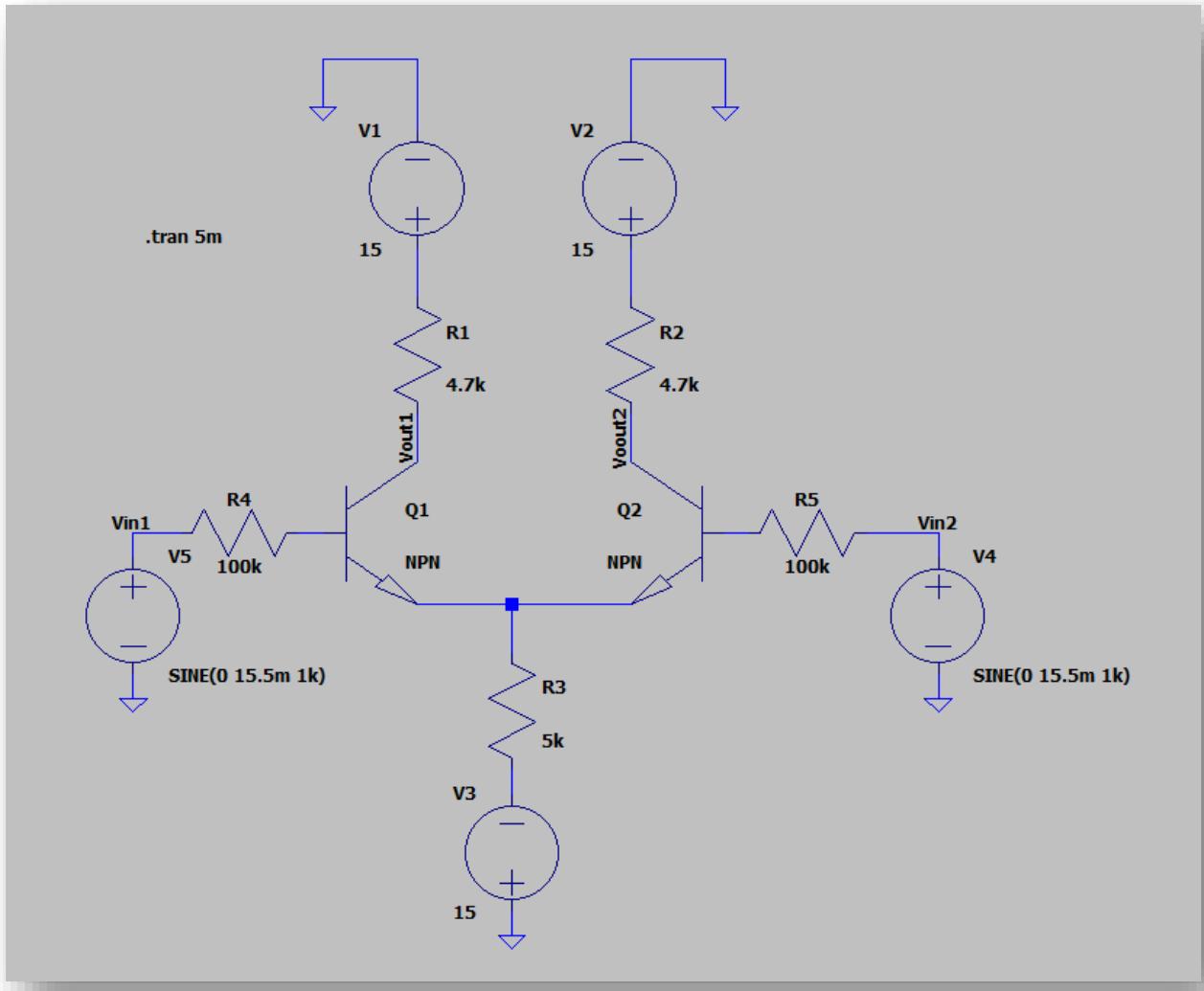
Lab Report 4

Experiment (E4 Differential Amplifier)

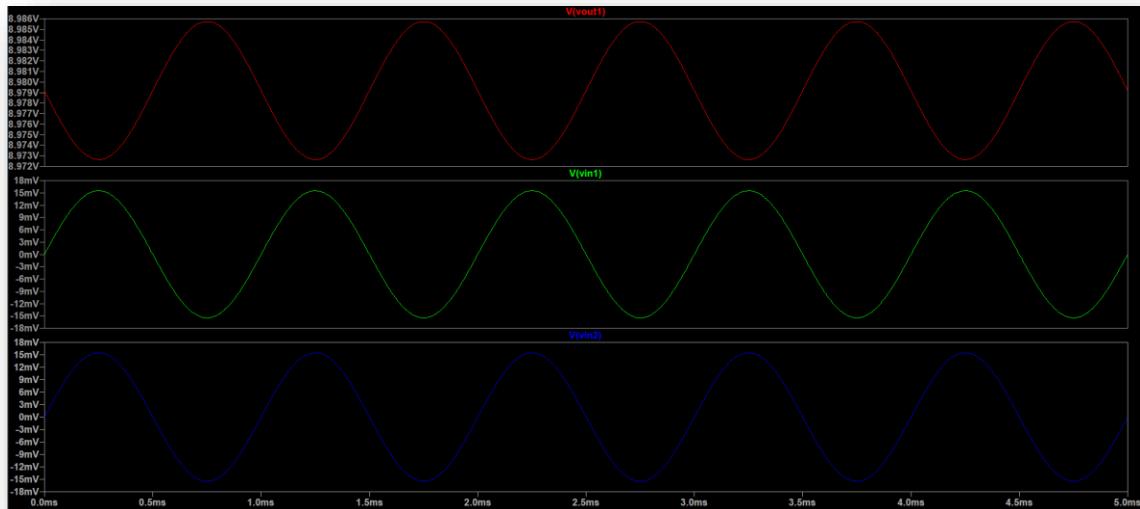
A31mv

Name	ID	Group Sunday 2:30->4:30
نور ايمن محمود	2200105	1
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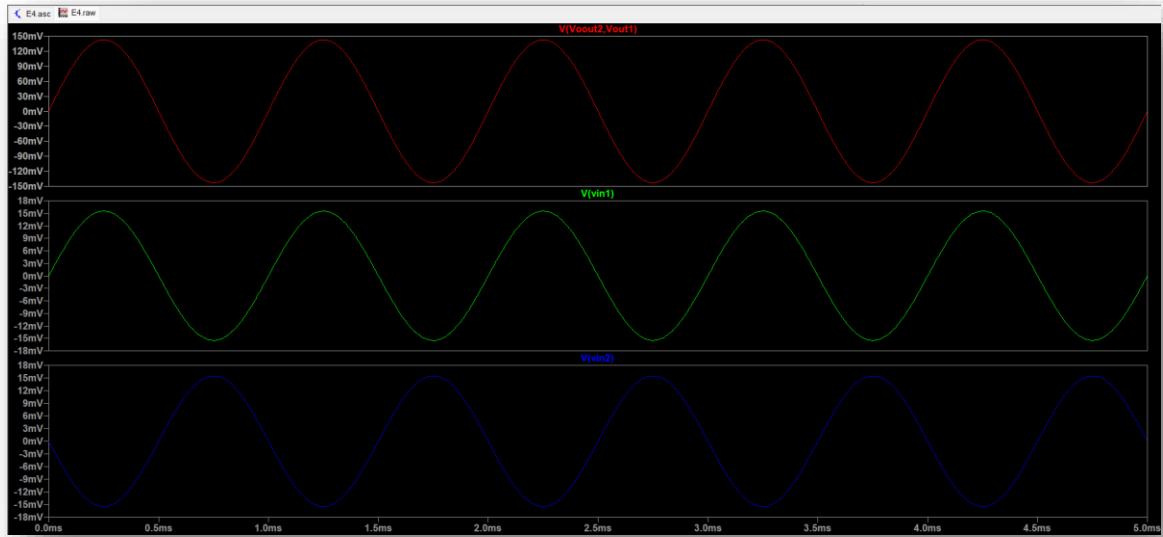
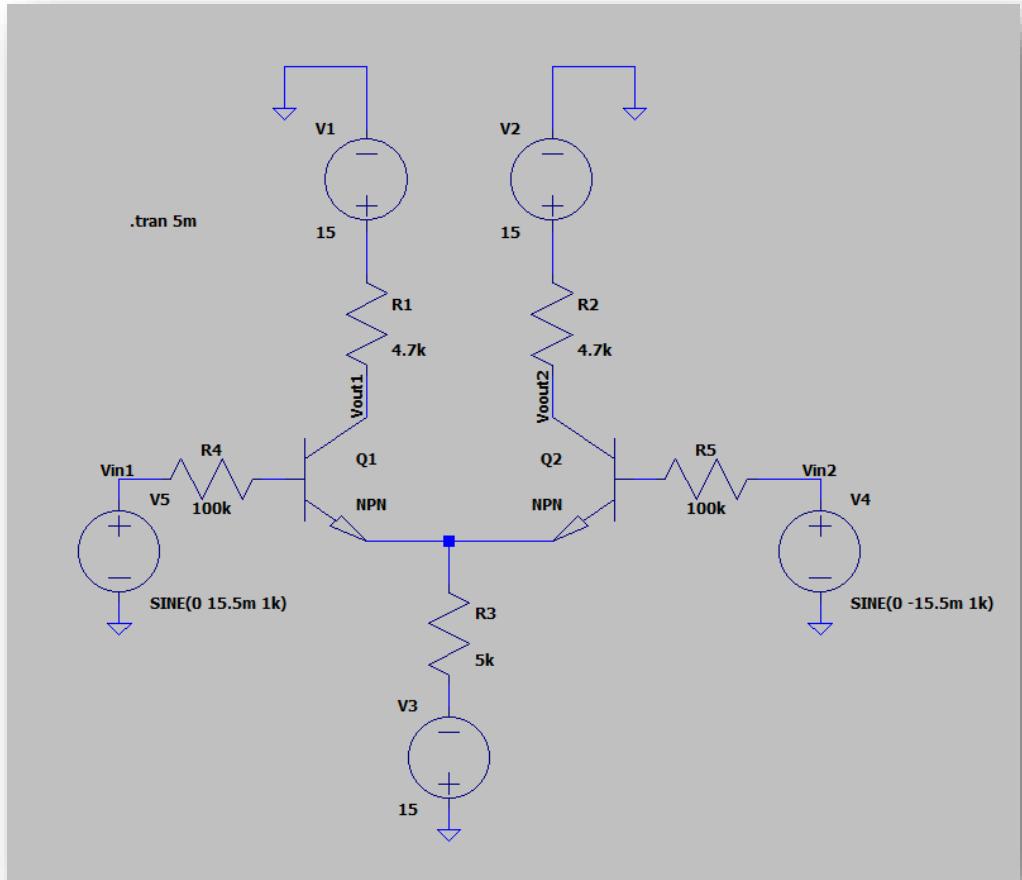
1. The schematic of the circuit shown drawn in the simulator



2. Snapshot displaying Vin1, Vin2 and Vout1 waveforms.
(Vin1 = Vin2 is Sine wave with 1KHz frequency and
31mV-PP)



3. Snapshot displaying V1, V2 and Vout waveforms. ($V1 = -V2$ is Sine wave with 1KHz frequency and 31mVPP)



4. Calculate the CMRR.
5. Derive the differential and common mode gain.