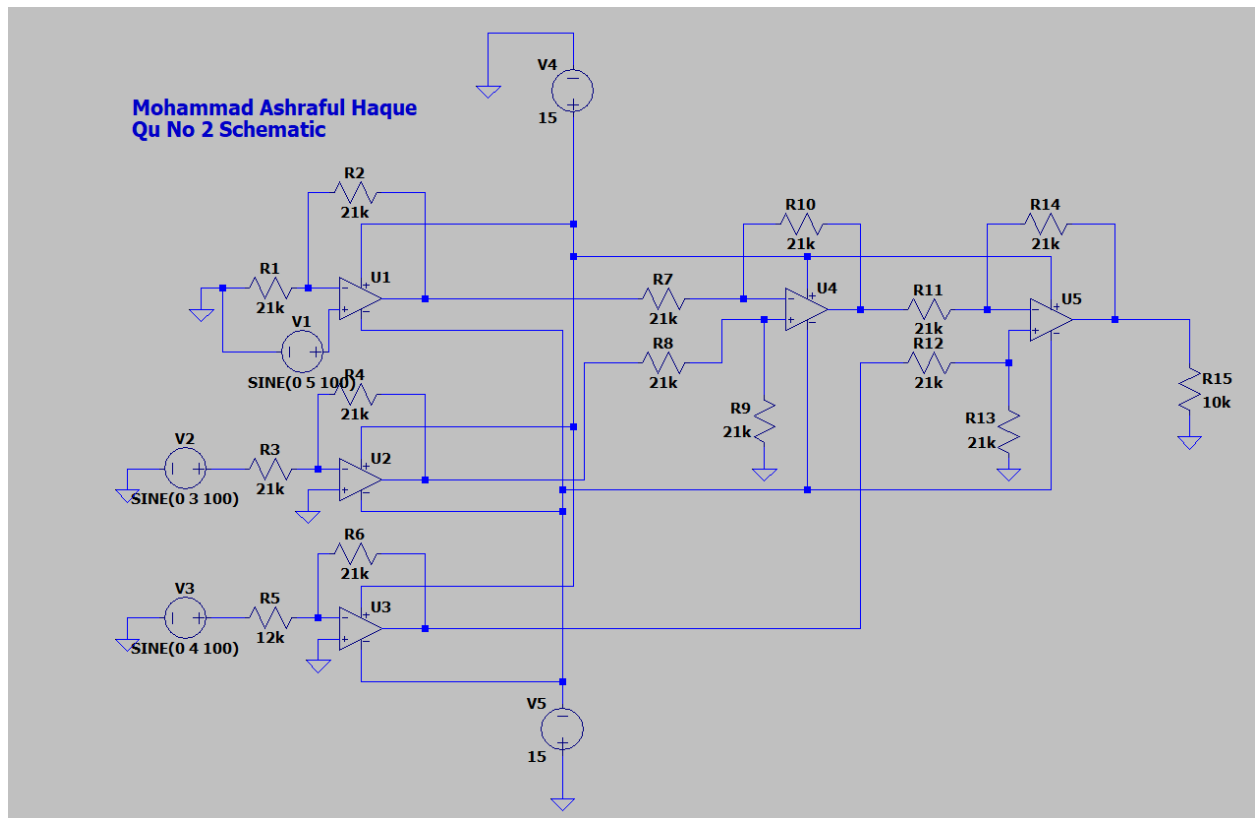a)

Mohammad Ashraful Haque
Qu No 2 Schematic

Ans to the qu no- 02

b)
Inverting amplifier close loop gain,
$$A_v = - \frac{R_f}{R_1}$$

Non Inverting amplifier close loop gain,
$$A_v = 1 + \frac{R_f}{R_1}$$

d) The circuit designed have three types of amplifiers:

ⓘ Non-inverting amplifier

ⓘⓘ Inverting amplifier

ⓘⓘⓘ Difference amplifier