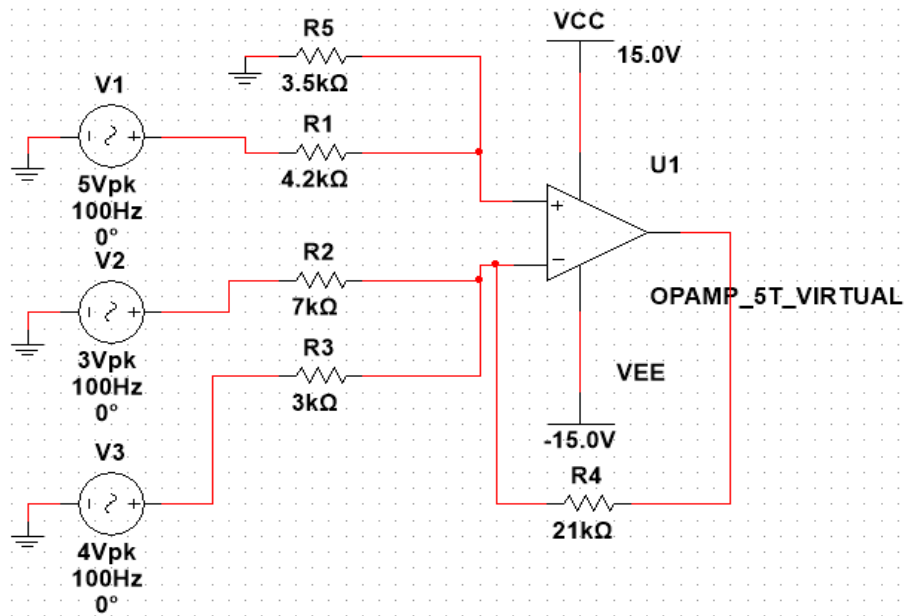1.
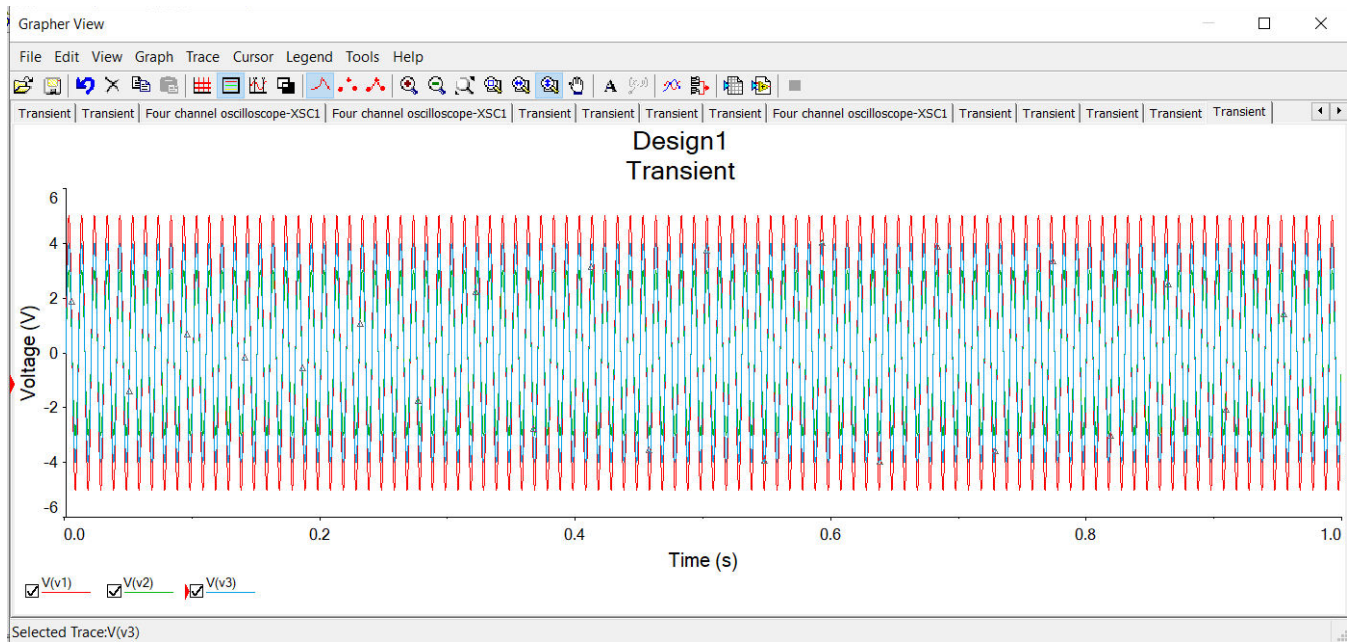
a)

b) Gain of Inverting Amplifier with source resistance R1 and feedback resistance Rf is -Rf/Ri.

Gain of Non-Inverting Amplifier with source resistance R1 and feedback resistance Rf is 1+(Rf/Ri).

c)

d)The designed circuit is Differential Summer Amplifier.

e)