ANALOG CIRCUIT DESIGN

WISSENAIRE

Simulation Report

And Solutions

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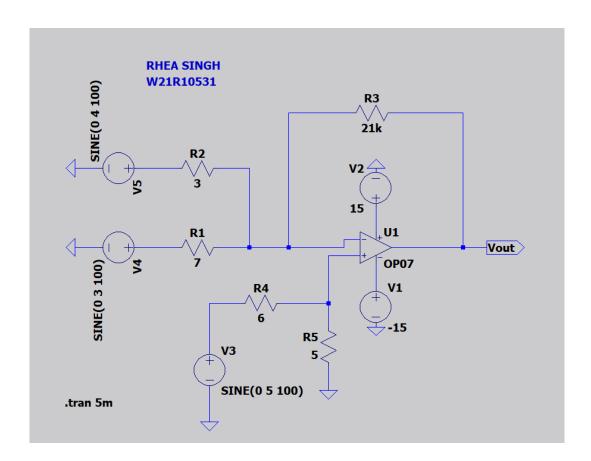
Wissenaire's ID - W21R10531

Department - Electrical Engineering

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Solution No. 2

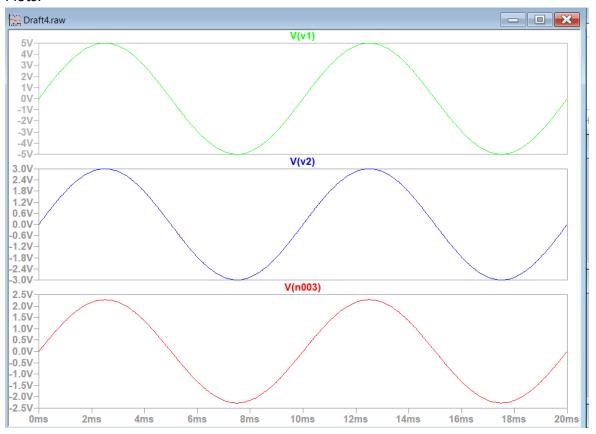
a) The screenshot of the LT-spice schematic diagram of the designed circuit:



b) The gains of an inverting amplifier and non-inverting amplifier with source resistance R1 and feedback resistance Rf are :

c) The screenshot of plot containing V1, V2 and V3 by performing a transient simulation are as follows:

Plots:



- d) The circuit designed is a Weighted Summer amplifier.
- e) The screenshot of plot containing (5V1-3V2-7V3) and V(out) in different pane by performing a transient simulation:

