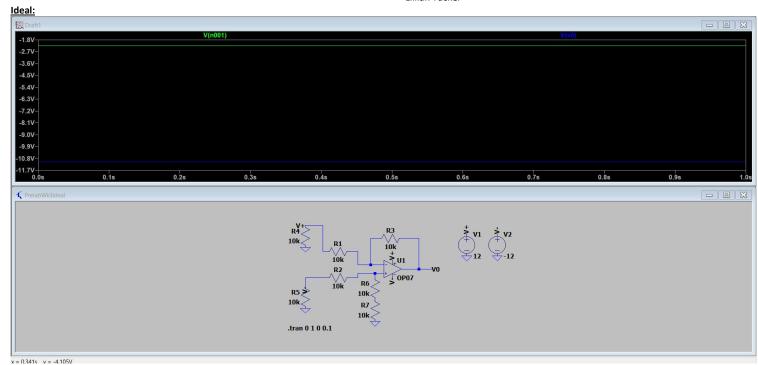
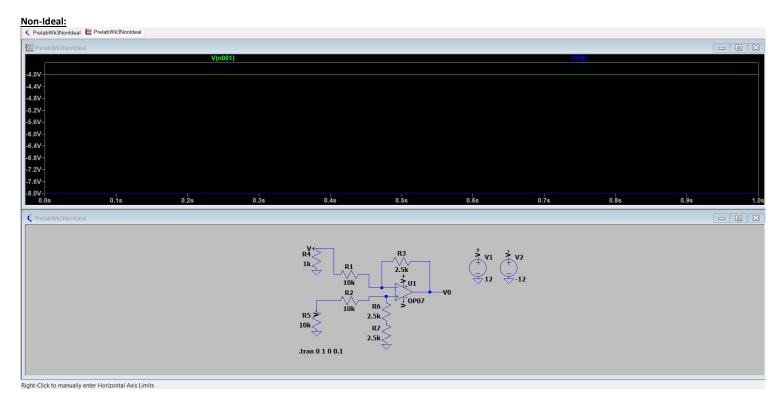
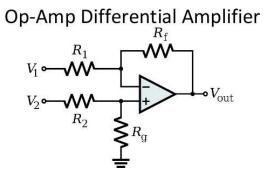
Lillian Tucker





I chose to change the value of R3, R6 and R7 from 10k ohms to 2.5k ohms. This figure resembles the format of a differential op amp. The gain of a differential op amp follows the equation in the figure below. With this in mind, our purpose for this amplifier s to create a difference between vin and vout. By the changes I made, the gain is smaller and vin and vout have less noticeable voltage changes.



$$V_{
m out} = rac{\left(R_{
m f} + R_{
m 1}
ight)R_{
m g}}{\left(R_{
m g} + R_{
m 2}
ight)R_{
m 1}}V_{
m 2} - rac{R_{
m f}}{R_{
m 1}}V_{
m 1}$$

If R_1 = R_2 and R_7 = R_8:
$$V_{\rm out} = \frac{R_{\rm f}}{R_1} (V_2 - V_1) \label{eq:Vout}$$