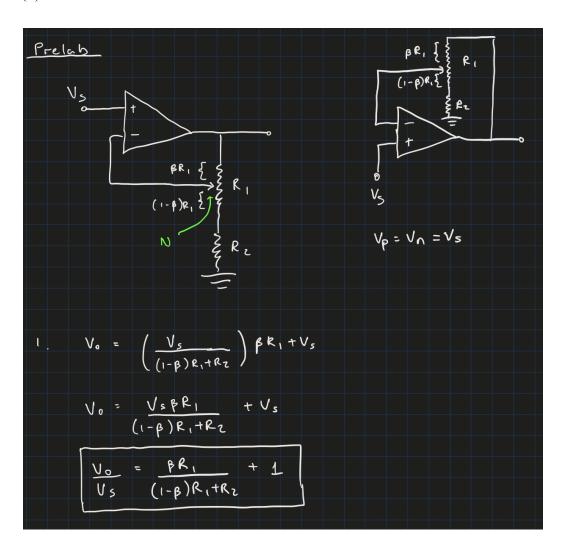
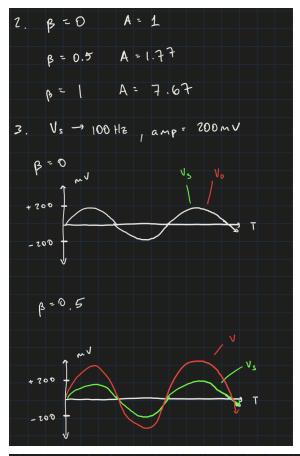
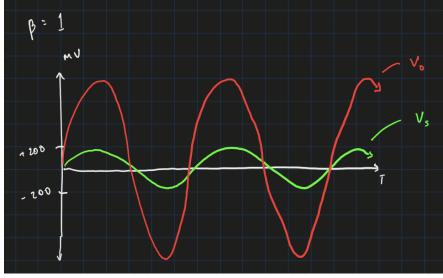
EEC 100 Lab 2-Inverting op-amp and potentiometer Justin Hsu 10/14/29

(1) Objective: Learn how to use an inverting op-amp and control the gain using a negative feedback loop and a potentiometer.

(2) Prelab:

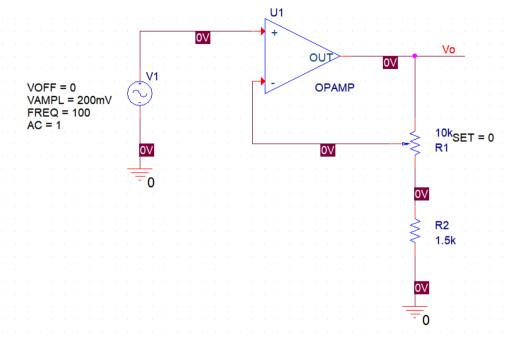


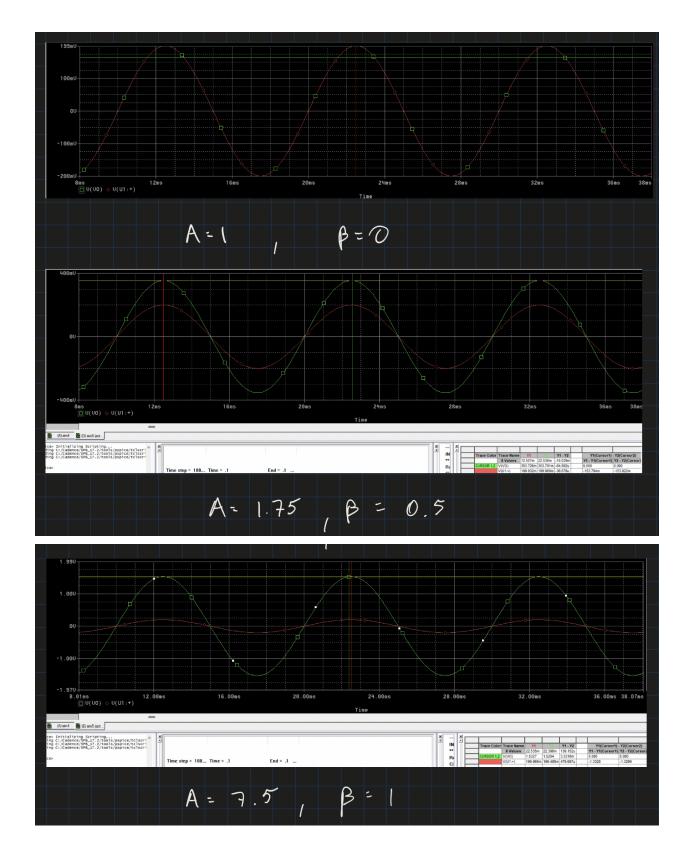




(3) Simulation:

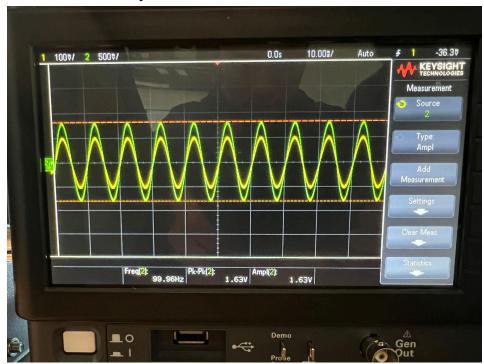




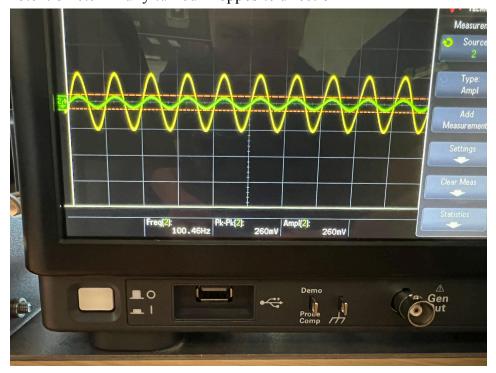


(4) Experiment:

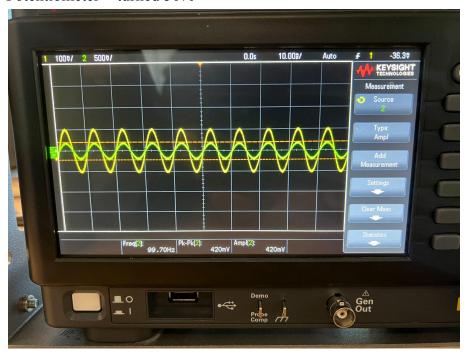
Potentiometer = fully turned



Potentiometer = fully turned in opposite direction



Potentiometer = turned 50%



(5) Conclusion:

My prelab calculations and PSpice simulations agreed with each other, verifying my calculations. When we tested in lab however, the values were slightly different, due to the inherent tolerance differences in each of the resistor values-leading to the actual output voltage being slightly off from its ideal counterpart.

(6) Checkoff signature from TAs.

