

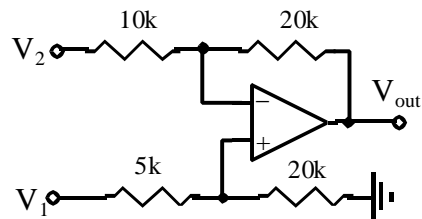
Analog and Digital Electronics

Spring 2018

Homework assignment 6: **Due Monday, April 9**

Choose **reasonable** values for any electronic components
For questions 1-4, draw the circuits!

1. Design an op amp circuit of Gains = - 5 and another with a gain = - 0.5
2. Design an op amp circuit of Gain +8.
3. Design an op amp circuit using one op amp that will take two inputs, V_1 and V_2 , and produce an output $V_o = -4V_1 - 2V_2$.
4. Design an op amp circuit using one op amp that will take two inputs, V_1 and V_2 , and produce an output $V_o = -4V_1 + 5V_2$.
5. Find V_{out} as a function of V_1 and V_2 for the circuit at the right.



6. Consider the op amp circuit at the right. Find the output as a function of the input voltage.

