Important Remarks

- Homework is due on Oct. 14th, 2014 at the beginning of class
- For all problems, keeping your work in fractions will produce easier, more accurate results.
- Start early and get help if you need it
- Start a new page per problem
- Show all the work
- Specify all the units
- Circle your answers
- Staple pages
- 1. Given the circuit shown in Figure 1. Compute V_{out} . Even if you know the answer you MUST derive it and show all your work.

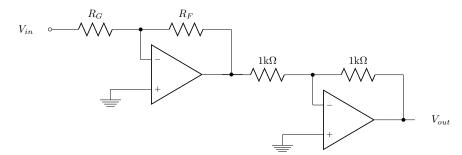


Figure 1:

- 2. For the op-amp circuit below assume it is an ideal op-amp with a supply voltage of ± 15 V:
 - (a) Determine the gain of the circuit.
 - (b) Determine the maximum value for V_S such that the op-amp does not saturate.

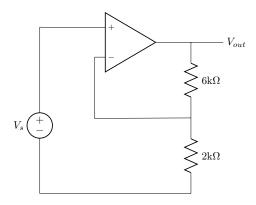


Figure 2:

3. For the op-amp circuit below, find V_{out} . Assume it is an ideal op-amp:

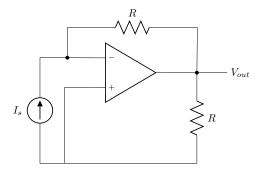


Figure 3: