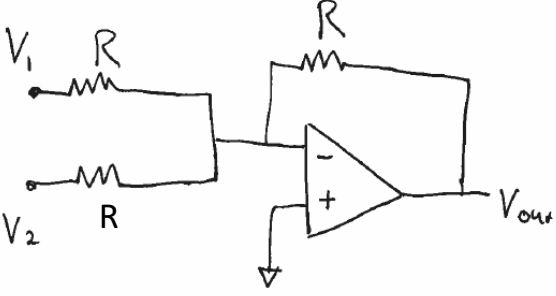
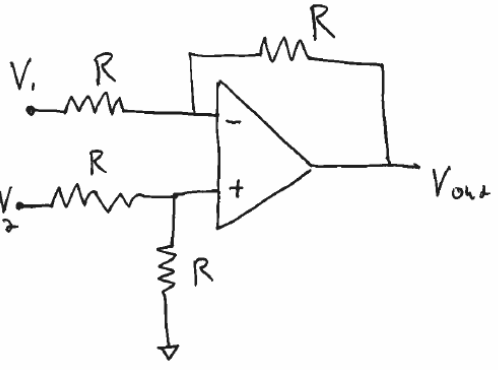
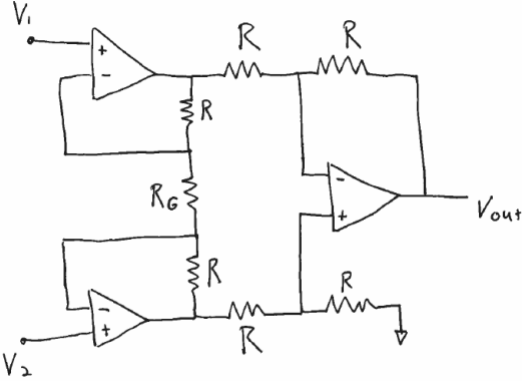
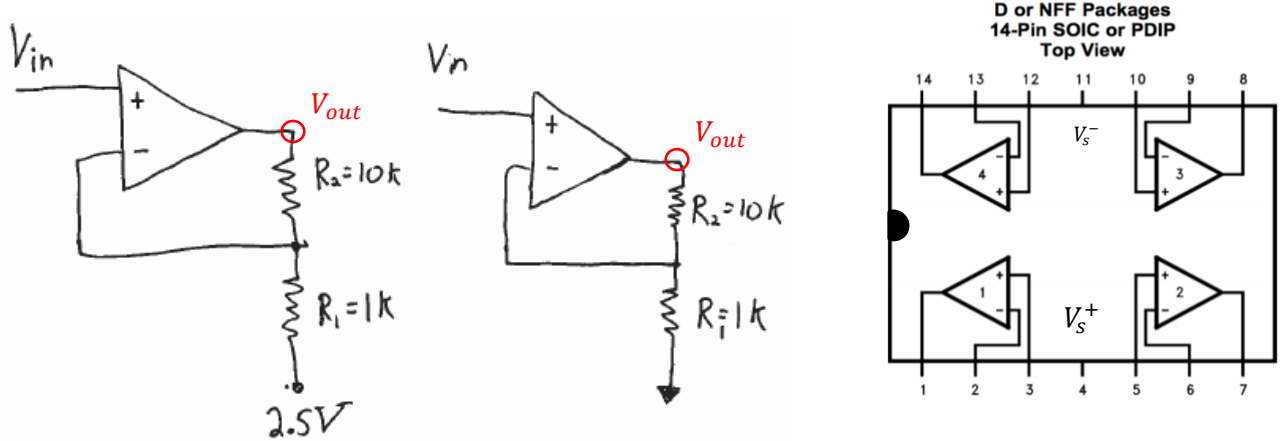
	<p>$V_{out} =$</p> <p>Name:</p>
	<p>$V_{out} =$</p> <p>Name:</p>
	<p>$V_{out} =$</p> <p>Name</p>
	<p>This is the challenge circuit</p> <p>$V_{out} =$</p> <p>Name: Instrumentation amplifier</p>

Now we ask you to **evaluate** two different op-amp configurations as shown in the figure below through measurements. You'll need a LMC6484 chip and an Analog Discovery. Build both circuits.

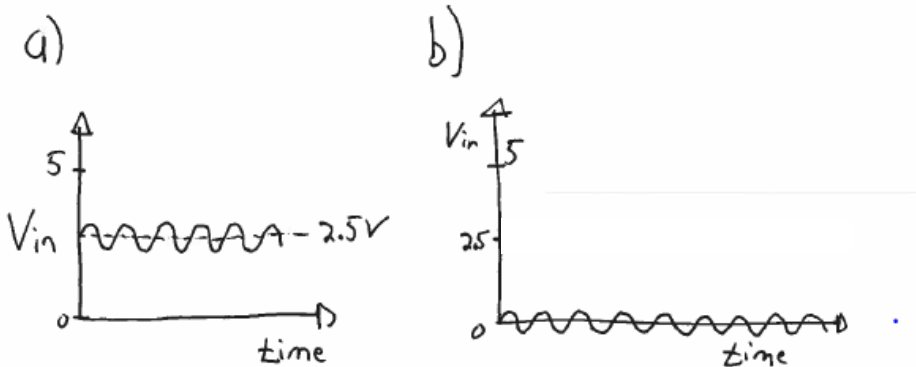


Set up the **Scope** to monitor V_{in} with Channel 1 and V_{out} with Channel 2.



Make sure you have configured your circuit and hardware so that your computer, your breadboard and the Analog Discovery share a 0V reference.

For the **input**, we suggest you use **Wavegen** to produce a 100mV sinusoidal voltage of 1kHz, offset by 2.5V (a) and then offset by 0V (b).



Work to understand how the difference of 2.5 volts or 0V changes the V_{out} response to the input of Figure a) versus in Figure b).



Explain any advantage of using 2.5V over 0V for these circuit configurations. There is no need to provide plots, just your thoughts.