

Answer all questions and submit on paper to your lab assistant at the beginning of the lab.

1. (2 points) Why do we use op-amps when processing signals? In other words, provide one scenario where you might want to use an op-amp.

When I need to magnify the voltage that flow through that part of circuit

2. (2 points) The op-amp we're going to use in the lab is an 8-pin integrated circuit. List the pins that we need to connect.

pin 7, 4 (power supply)

pin 3, 2 (input)

pin 6 (output)

3. (3 points) Suppose we were to connect feedback between pins 6 and 3 on the op-amp. Would we be able to use the "0V-0A" property? Explain.

No. we can't use the "0V-0A" property.

pin 6 is output, pin 3 is non-invert input.

It can't hold 0V in real life

4. (3 points) The op-amp in the lab has 15V connected to pin 4 and -15V connected to pin 7. Are the power supplies hooked up correctly? Explain.

No, they connect wrong.

pin 4 should be -15V

pin 7 should be 15V