Op-Amp Prelab

Name:_____________
TA:_____________
Session:____________

1. For the Op-Amp we are going to use LMC 6482, which pin is \( V_{DD} \) (\( V^+ \)) and which is ground (\( V^- \))? What are the voltages we are going to use for \( V_{DD} \) and \( V_{SS} \)?

2. Derive the gain \((V_{out}/V_{in})\) expression in terms of \( R_1 \) and \( R_2 \) for the following amplifiers.

(a) Noninverting amplifier

(b) Inverting amplifier
3. What is the gain of this circuit?

![Op-Amp Circuit 1](image1.png)

4. Show the relation of output and input voltage of the following circuit is integration.

![Op-Amp Circuit 2](image2.png)

5. Show the relation of output and input voltage of the following circuit is differentiation.

![Op-Amp Circuit 3](image3.png)