Name: Swagat Panda ID: 2017B5A30983P

### Lab VII

## Study the performance of Voltage Rectifiers and Clippers using LM741

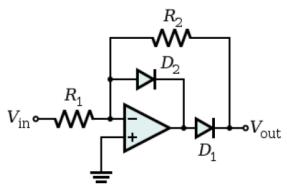
### **Objectives**

To study the following rectifiers and clippers using op-amp IC LM741

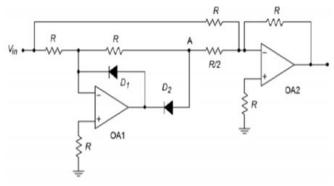
- 1. Precision Half Wave Rectifier
- 2. Precision Full Wave Rectifier
- 3. Positive Clipper
- 4. Negative Clipper

and draw output waveforms in each case. Also draw the schematic for each filter.

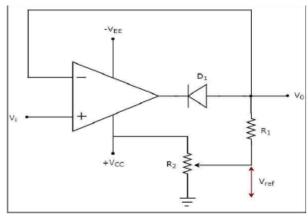
### Topology of Rectifiers and Clippers



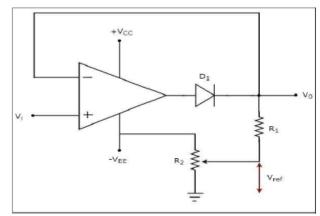
Precision Half Wave Rectifier



Precision Full Wave Rectifier



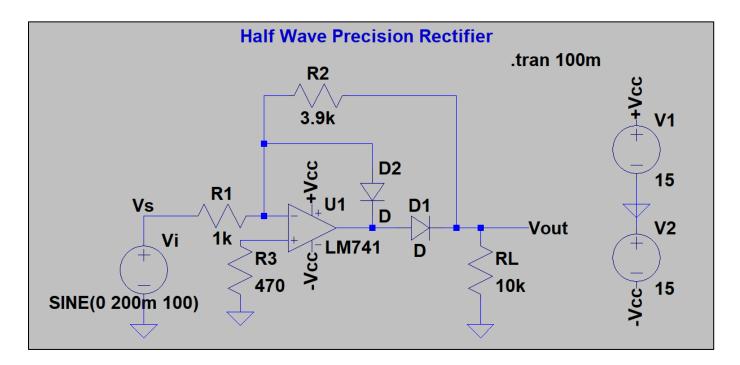
Positive Clipper

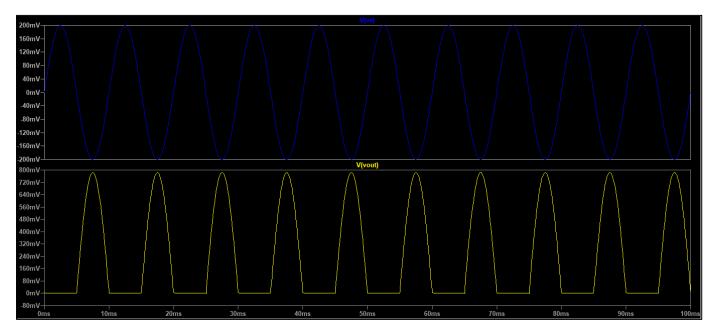


**Negative Clipper** 

## 1. Precision Half Wave Rectifier

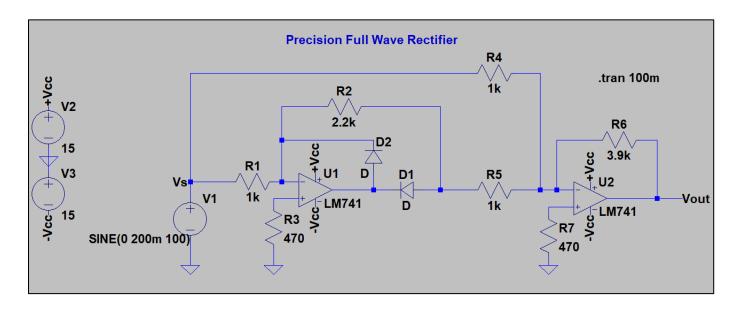
### Schematic and Waveforms

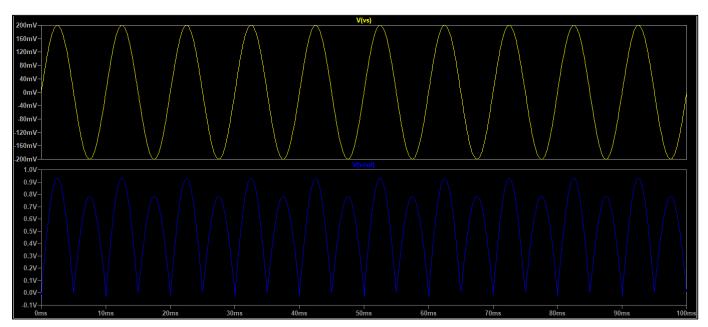




## 2. Precision Full Wave Rectifier

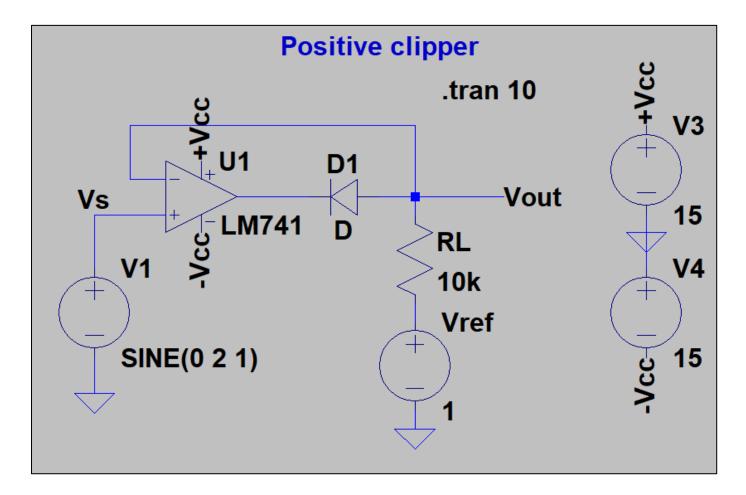
### Schematic and Waveforms

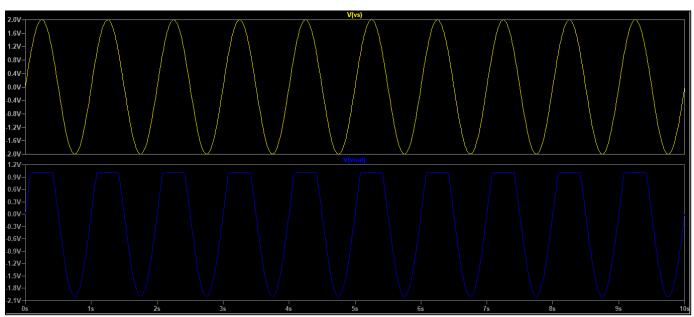




# 3. Positive Clipper

#### Schematic and Waveforms





# 4. Negative Clipper

#### Schematic and Waveforms

