## Regulated DC Supply

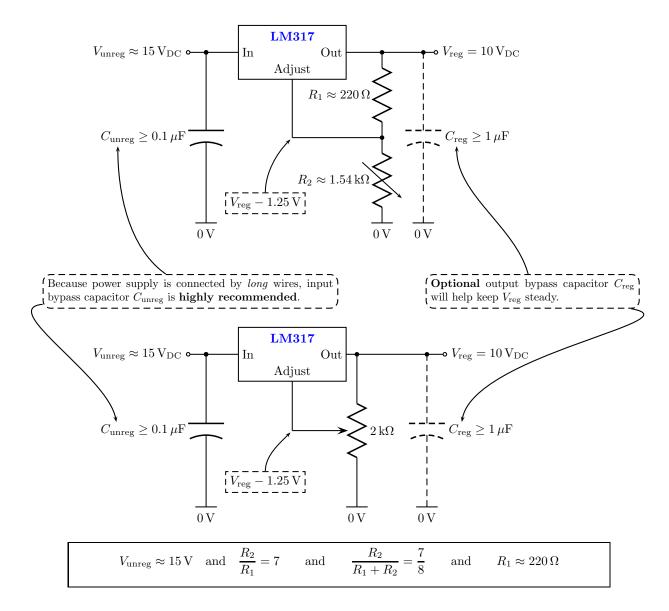
## Lab 6: Digital-to-Analog Conversion

ECE 327: Electronic Devices and Circuits Laboratory I

## 1 Regulated $10 V_{DC}$ Supply

A single regulated supply powers every receiver component. Transmitter components use a separate supply.

- 1. Isolate two separate sets of 0 V and 10 V supply rails on your breadboard (or use two breadboards).
- 2. Connect LM317 regulated output to receiver supply rail.
- 3. Connect unregulated DC supply (e.g., 15V<sub>DC</sub>) to LM317 input. Make connection easy to find later.
- 4. A large bypass capacitor (e.g.,  $1-10\,\mu\text{F}$ ) may be placed *near* LM317 from Adjust to ground.
- 5. A  $\sim 0.1 \,\mu\text{F}$  bypass capacitor to ground can be placed at the 10 V input to each circuit component.





## A Parts

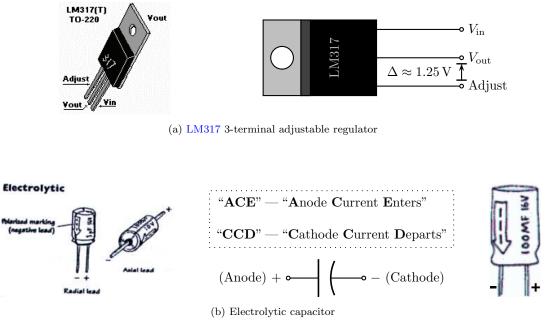


Figure A.1: Part pin-outs.