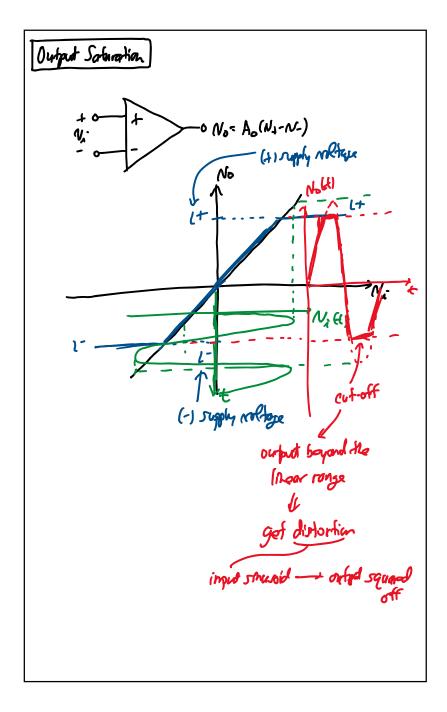
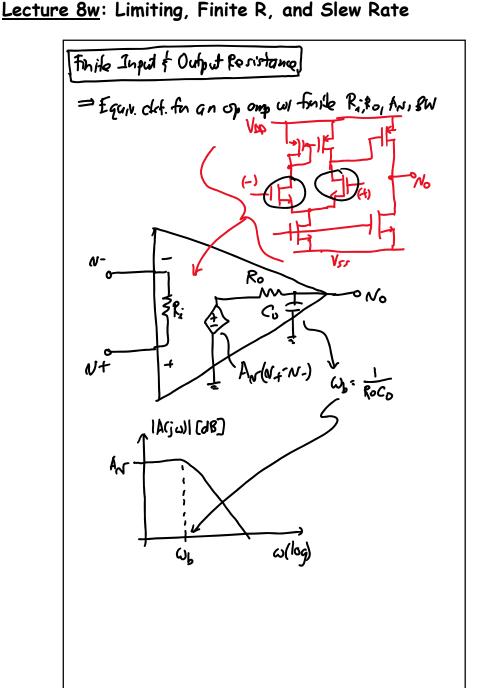
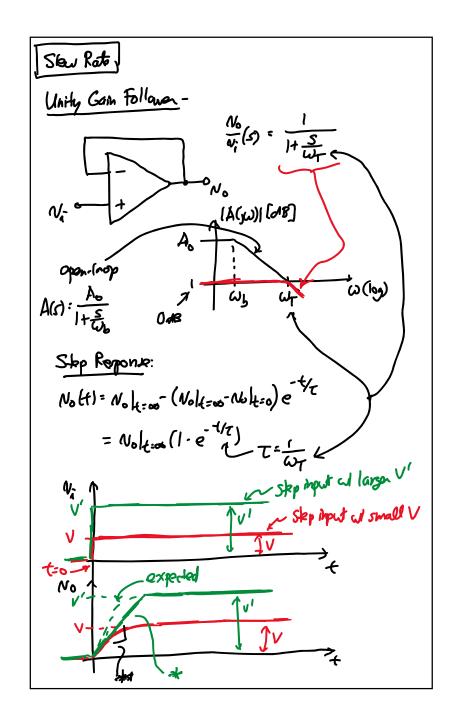
## Lecture 8: Limiting, Finite R, and Slew Rate

- · Announcements:
- · HW#3 online and due Friday via Gradescope
- · Lab#2 is a two week lab
  - \$ Prelab is due in the second week
  - But you should have proof of having started it when you go to lab this week
  - Syou will still do the lab this week and continue next week
- ------
- · Lecture Topics:
  - **⇔** Limiting
  - Finite Input & Output Resistance
  - **♦** Slew Rate
- -----
- · Last Time:
- · Finished finite gain-BW op amp circuits
- Started limiting
- · Now, continue with this ...







Linear Increase caused by internal op amp limitation (i.e., transisters) that constrain the output current of the op amp! stop - stope Max. Rate of change of = Slew Rate: SR: dwo | [V/w] output voltage) Example. Output a sinusoid (a at least try to ...) longer slage = dw. > SR turns smusoid were

Full Power Bandwidth < fm

- Suppose you wanted your op amp circuit to output a signal with a maximum amplitude Vomax
- Then the full power bandwidth is the maximum frequency of this Vomax amplitude that the op amp can track without slewing

