## CMOS Operational Amplifier Prelab

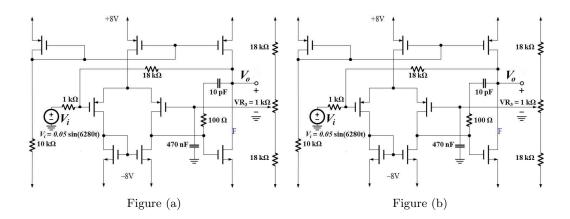
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## CMOS Operational Amplifier Small Signal Analysis

Use three CD4007 ICs to construct the circuit in Figure (a) or Figure (b), and follow the steps below:

- 1. Record the input $(V_i)$  and output $(V_o)$  waveform in Y-t mode for f=1kHz.
- 2. Plot the magnitude bode diagram of  $V_o/V_i$  for f=500kHz to 1MHz.
- 3. Indicate the 3-dB frequency and the bandwidth.

note: For Each CD4007 IC, supply voltage VSS = -8V in pin 7 and VDD = +8V in pin 14.



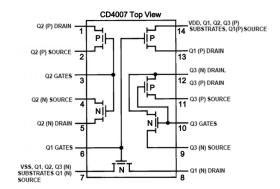


Figure (c): the CD4007 IC