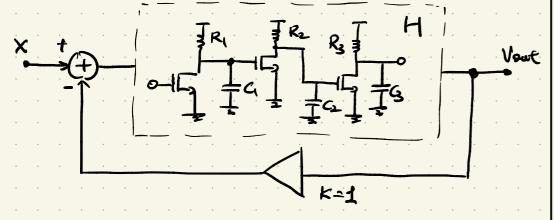
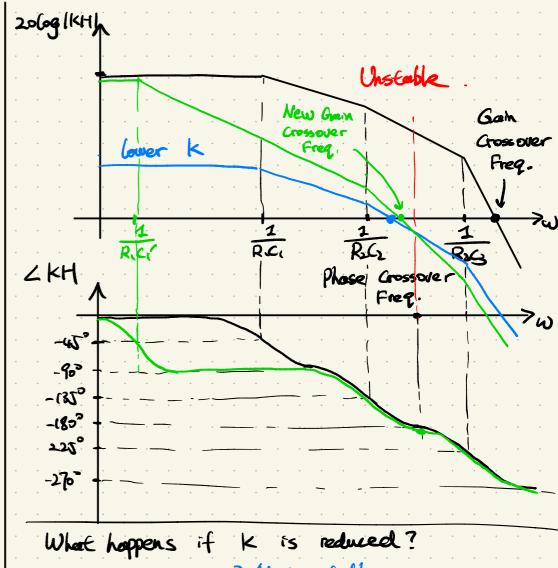
Lec 45

- Circuit Examples for Stability Analysis
- Phase Margin
- Frequency Compensation

Example

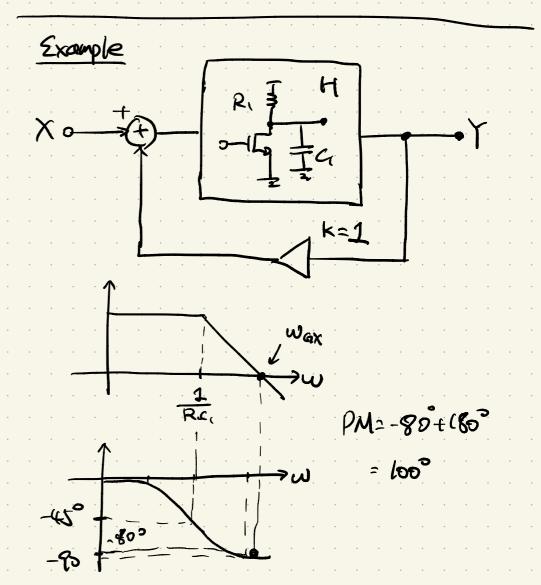




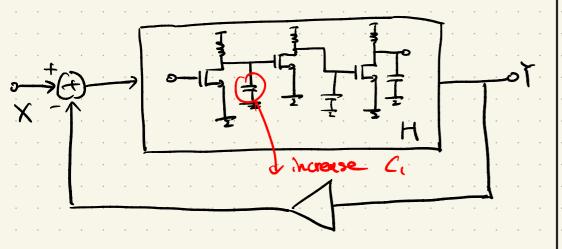
What happens if Ci is increased? => More stable

Phase Margin Note on Stability Test: Consider these senations:

Phase Margin = $\angle KH(W_{6x}) + 90^{\circ}$ PM = 60° for well-behaved response $\Rightarrow \angle KH(W_{6x}) \approx -120^{\circ}$



Frequency Conpensation



freq. conpensation by moving the first pole towards the origin.