

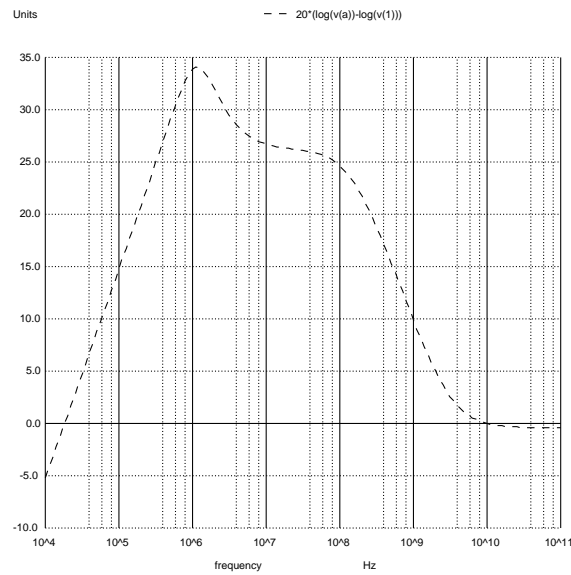
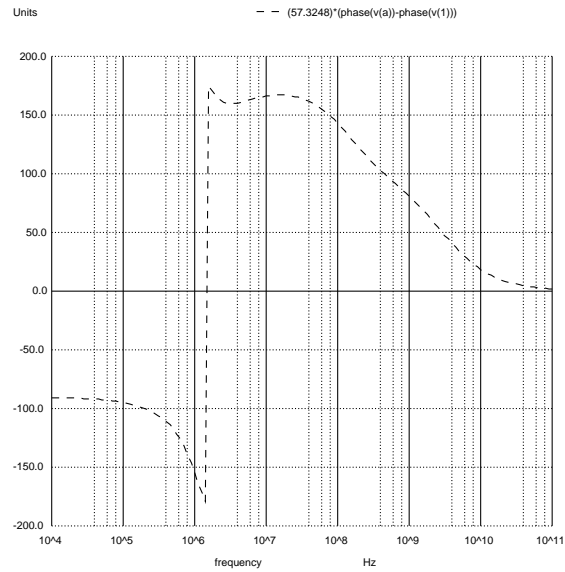
Devesh Kumar,16d070044

February 19, 2018

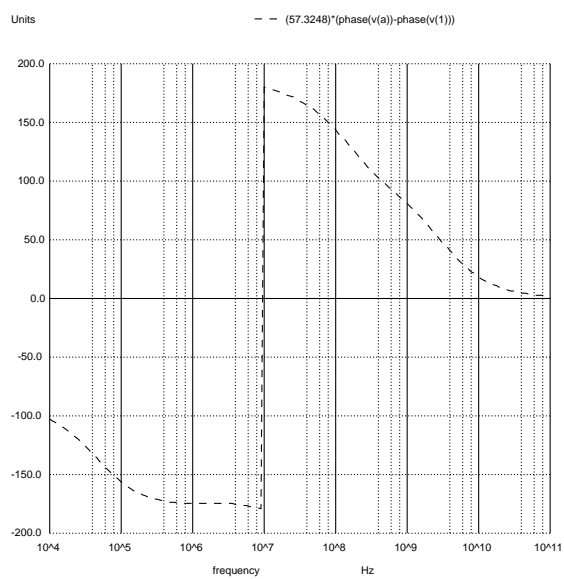
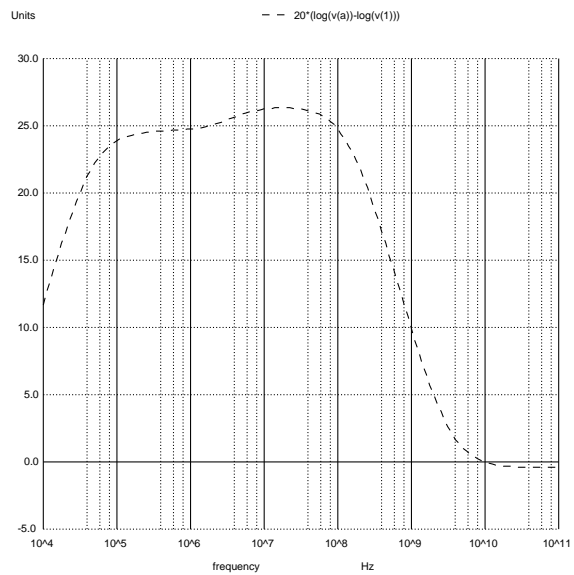
1 part₁*withoutmiller*

For CS gain

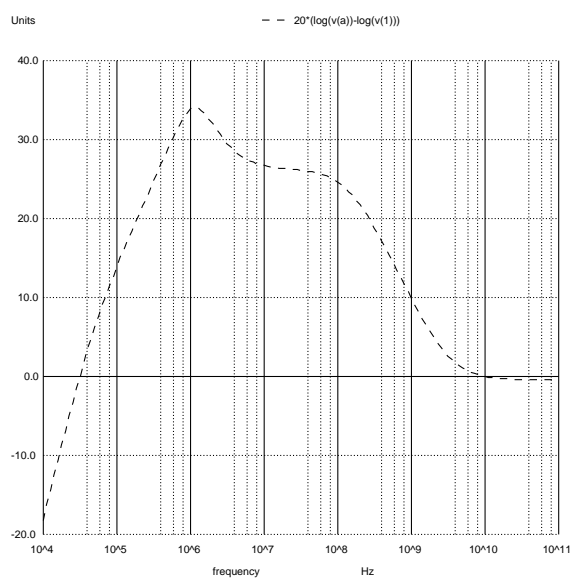
I. $C_b = 100 \text{ pF}$ and $C_d = \text{infinity}$

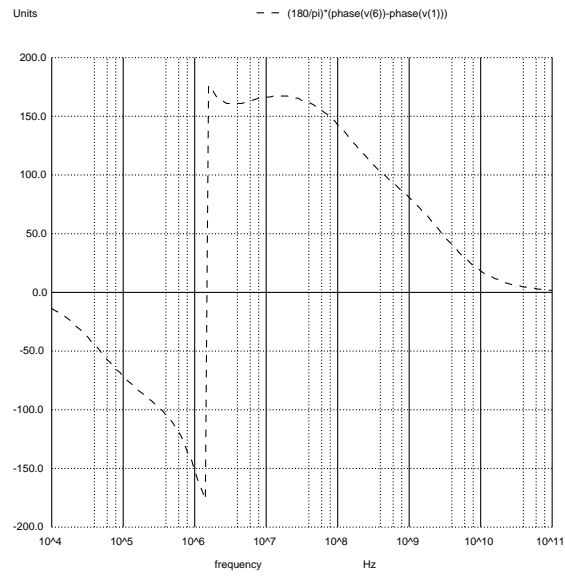


II. $C_b = \text{infinity}$ and $C_d = 100 \text{ pf}$

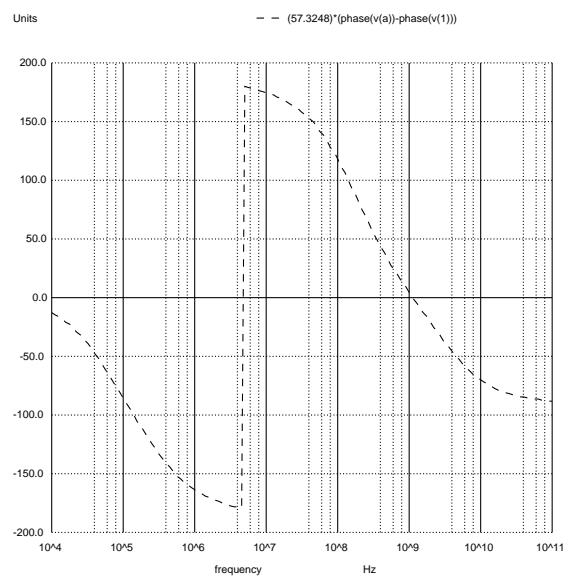
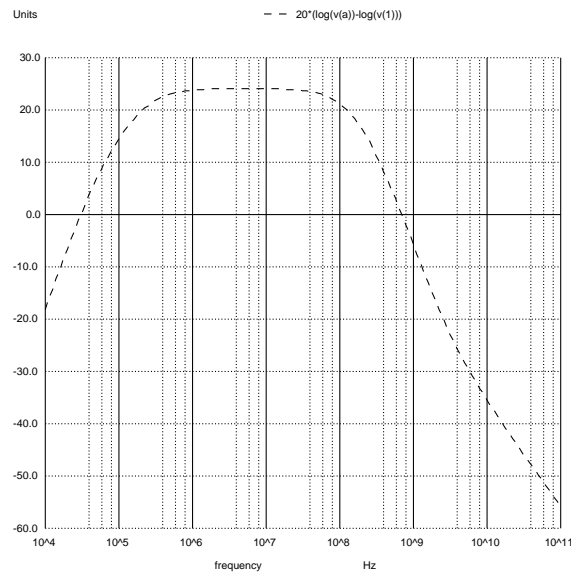


III Cb = 100pf Cd=100pf



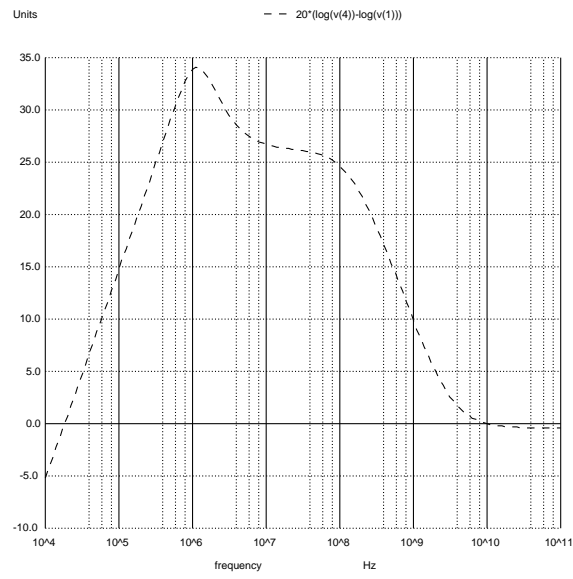
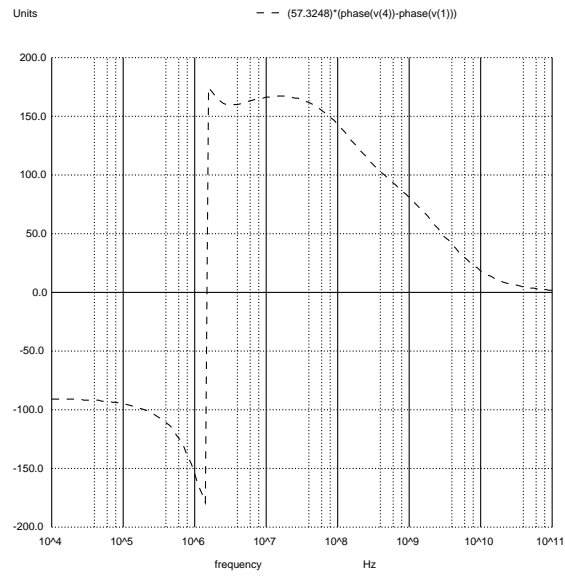


An additional capacitor $C_S = 1 \text{ nF}$ is connected in parallel with R_S along with III.

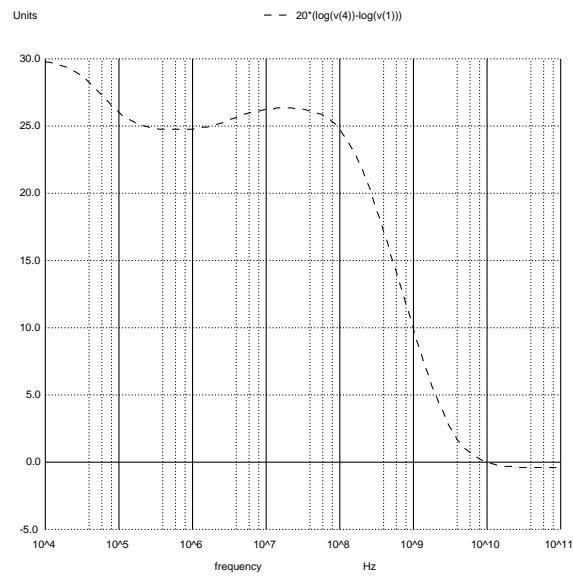


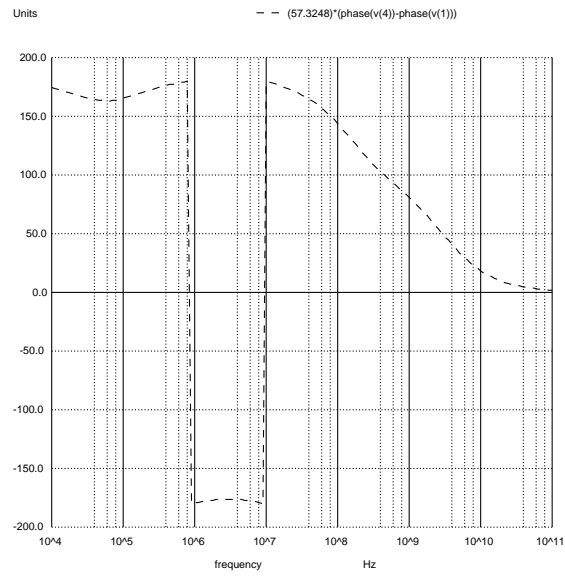
For CD gain

I. $C_b = 100 \text{ pF}$ and $C_d = \text{infinity}$

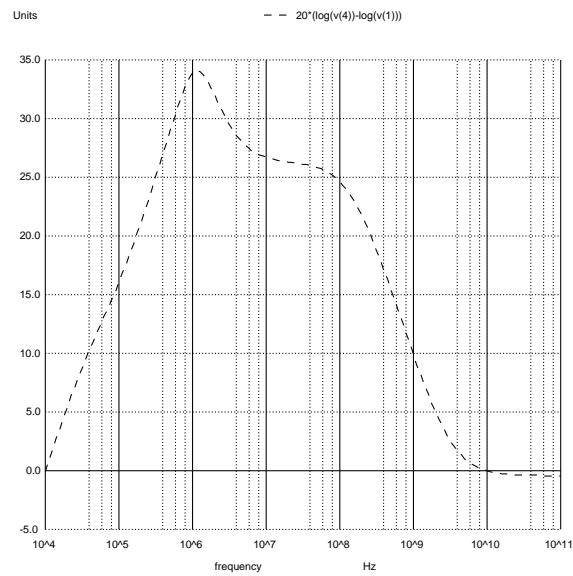
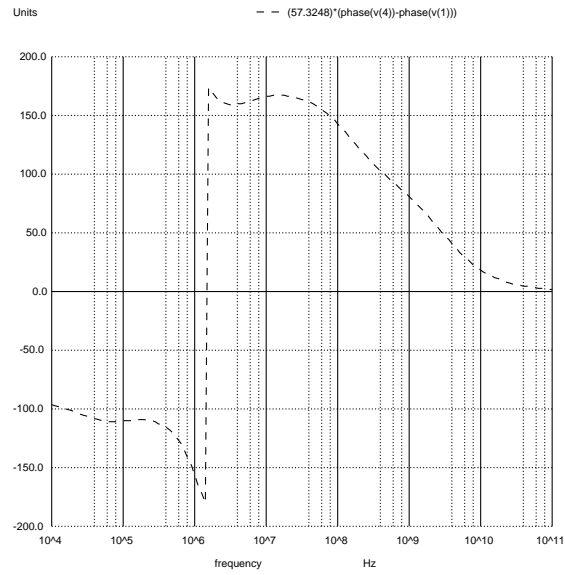


II. $C_b = \text{infinity}$ and $C_d = 100\text{pf}$

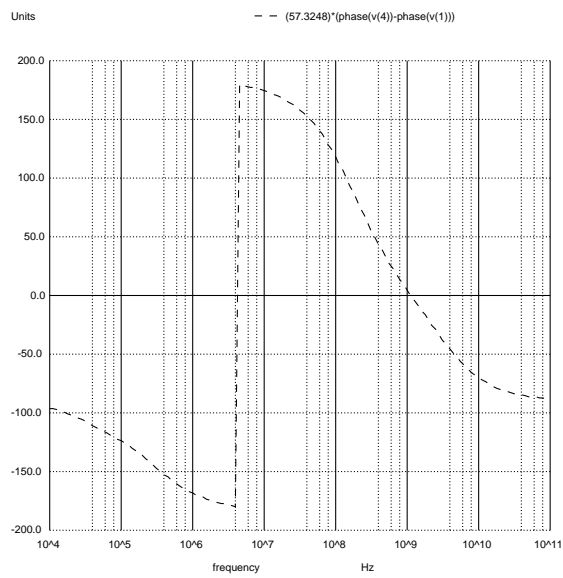
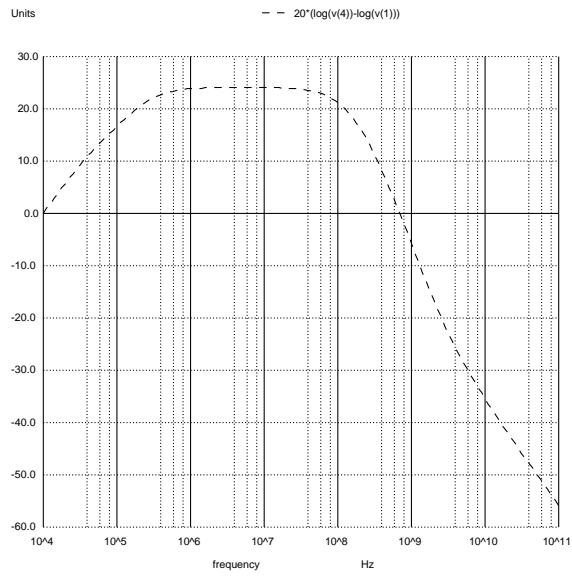




III Cb = 100pf Cd=100pf

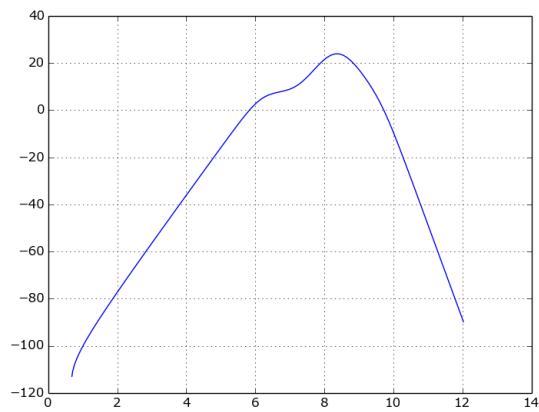


An additional capacitor CS = 1 nF is connected in parallel with Rs along with III.

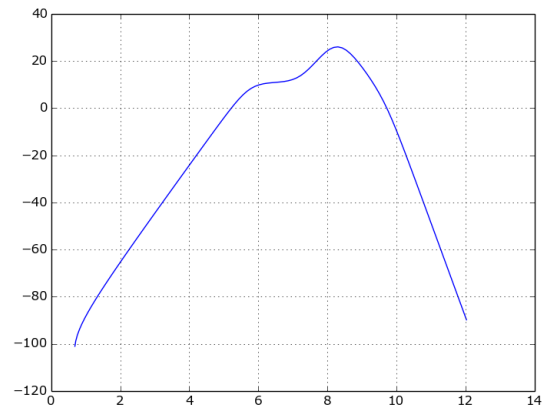


2 part₂withmiller

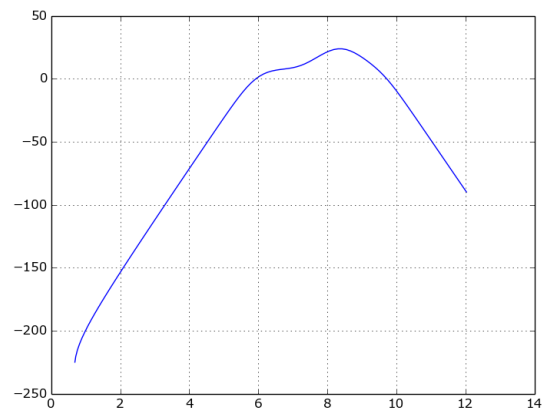
For CS gain
Cb = 100 pF and Cd=infinity



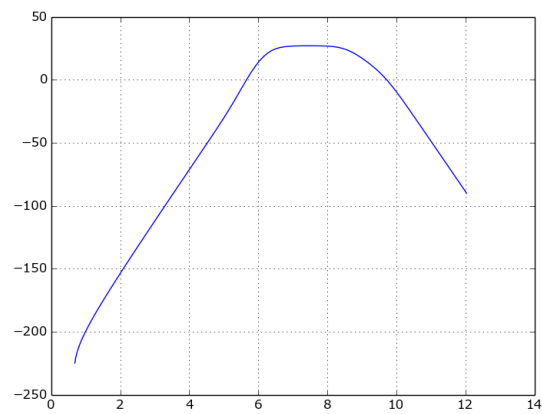
II. Cb = infinity and Cd=100pf



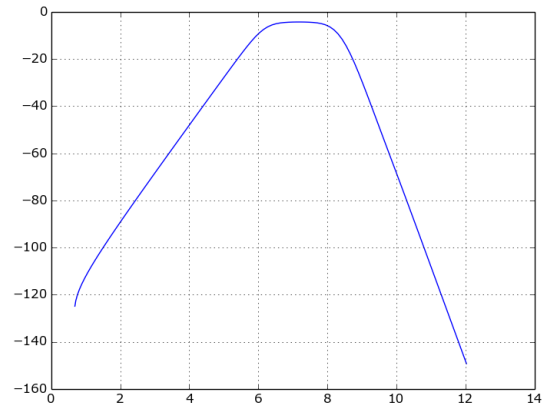
III $C_b = 100\text{pf}$ $C_d = 100\text{pf}$



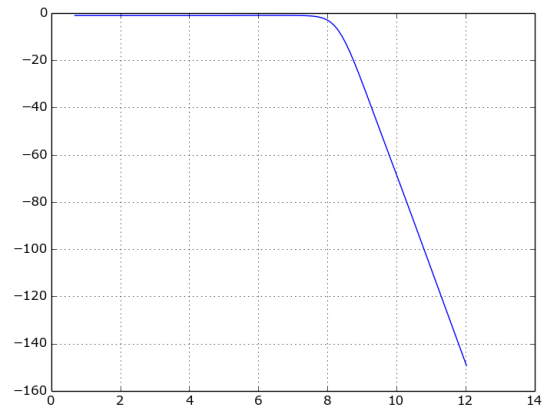
An additional capacitor $C_S = 1\text{ nF}$ is connected in parallel with R_s along with III.



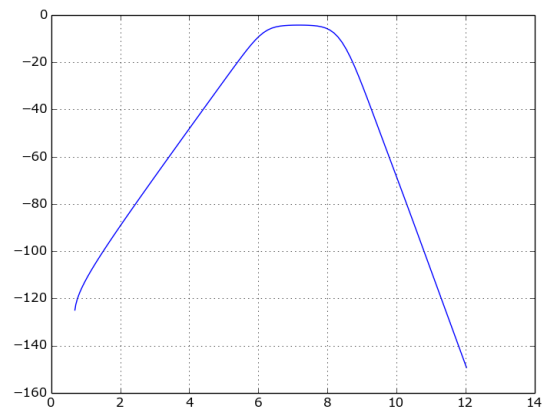
For C_d gain
 $C_b = 100\text{ pF}$ and $C_d = \text{infinity}$



II. $C_b = \text{infinity}$ and $C_d = 100\text{pf}$



III $C_b = 100\text{pf}$ $C_d = 100\text{pf}$



An additional capacitor $C_S = 1 \text{ nF}$ is connected in parallel with R_s along with III.

