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For the following circuit use the node analysis to calculate the magnitude of V_{out} at steady state, for the frequency range of 100 MHz to 4 GHz.

$V_i=1\sin\omega t$, ($\omega=2\pi ft$).

$g_m=0.04$ Mho.

$fF=10^{-15}$ F.

$nH=10^{-9}$ H.