

$K_v = 2.0 \text{mA/V} \cdot (W_g / 1 \mu \text{m}) \Delta V = 0.1 \text{V},$	(b) Compute the small signal Vout/Vgen at
$1/\lambda = \frac{1}{\ln \ln t} V (W_g / \mu m) \Delta V = 0.1 V,$ $1/\lambda = \frac{1}{\ln \ln t} V Olts, and a 0.25 V$ threshold. $L_g = 30$ nm. The gate-source capacitance $C_{gs}$ is $(20 \text{fF} / (\mu m)^2) \cdot L_g W_g + (0.5 \text{fF} / \mu m) \cdot W_g$ while $C_{gd}$ is $(0.5 \text{fF} / \mu m) \cdot W_g$ .	mid-band. (c) Using the results derived by nodal analysis, find the first two poles in the transfer function. (d) Draw clean Bode plots on semilog paper of the mangitude and phase of the transfer function.
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