(gm 1/40, 1/402) CL

ECEN 340 Sect. 001

Homework 12

11:1,4,16, 20, 24,26

Benjamin Bergesm

11:26

11:49

Zin=

[(π + (1+gmR_b)(π)s]

I VT

Tone $1 + V_{\pi}$ [((π + (1+gmR_b)(π)s]

B $1 + V_{\pi}$ [((π + (1+gmR_b)(π)s]

B $1 + V_{\pi}$ [((π + (1+gmR_b)(π)s]

B $1 + V_{\pi}$ [((π + (1+gmR_b)(π)s]

B $1 + V_{\pi}$ [((π + (1+gmR_b)(π)s] $1 + V_{\pi}$ [((π + (1+gmR_b)(π)s]

Wy = $\frac{\beta^{2} 1}{V_{\pi}^{2}}$ = ((π + (1+gmR_b)(π)s)

Create A Problem

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Determine R_{p} So that $I_{1} = 9I_{REF}$ $V_{GSI} = \frac{2I_{1}}{M_{h}G_{0}X_{c}} + V_{TH} = \frac{9I_{REF}}{y_{h}G_{0}X_{c}} + V_{TH} = \frac{3}{y_{h}G_{0}X_{c}} + V_{TH}$ $I_{REF} = \frac{1}{2}M_{h}G_{0}X_{c}(\frac{W}{L})(V_{GS}, REF} - V_{TH})^{2}$ $I_{REF} = \frac{1}{2}M_{h}G_{0}X_{c}(\frac{W}{L})(V_{GS}, I_{EF}R_{p} - V_{TH})^{2}$ $I_{REF} = \frac{1}{2}M_{h}G_{0}X_{c}(\frac{W}{L})(V_{GS} - I_{REF}R_{p} - V_{TH})^{2}$ I_{REF

(V3-JZ)