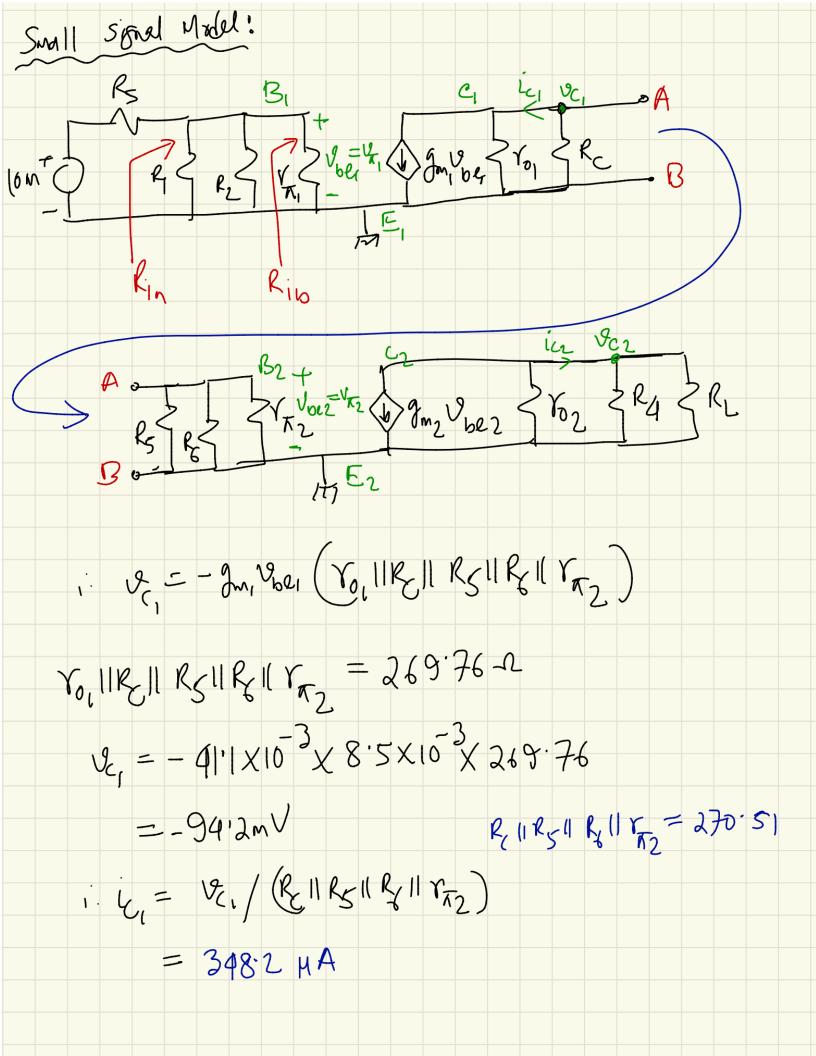


Problem 3 For the first stage, DC onalysis and small sisonal parameters are same as before. # For the second stage: 12V 12V 11K VH2 Trs2 (7) $R_{1} = R_{5} || R_{6} = 2.775 k - \Omega$ $V_{1} = \frac{R_{6}}{R_{5} + R_{6}} || 2 = 0.9 V$ $\frac{1}{100} = \frac{6.9 - 6.7}{910} = 72.1 \text{ MA}$ In = 5:047 mA IE7 = 5.12 MA $g_{m_2} = \frac{J_{c_2}}{V_T} = 201.88 \text{ mA/V}$ $Y_{e2} = \frac{V_T}{I_{E2}} = 4.88 - \Omega$ $Y_{e2} = \frac{V_T}{I_{E2}} = 346.741 - \Omega$ $Y_{o2} = \frac{V_T}{I_{S2}} = 19.81 \text{ k.s.}$



Now, Jobs = 12, = -9412 mV : 2= 2m2 b22 (6211 R411 RL) 80211 R411 RL= 487.7.1. = 201'88×10-3×94.2×10-3×487.7 = 9'275V -> See that itisa positive in = 902/(Rg11R) D look at the considered in the arount = 9.275/500 2 18'6 mA -> If opposite direction le regetive

