Lab 3 Pre Lab $\dot{z}_{D} = \frac{\sqrt{N1 - V_{OU} f}}{R_{I}}$ -Step 1. Vp1 = VN1 ia = -VN1 @ Node VN1 : in = 10 -VNI = VNI - Vout = VNI - Vout
Rb = Rb $\frac{(R_{6})(-V_{N1})}{R_{1}} = V_{N1} - V_{00} + V_{N1} = V_{S1}$ $\frac{(R_b)(-V_{N1})}{R} - V_{N1} = - V_{out}$ $\frac{R_{R}}{R_{A}} + 1 = \frac{\sqrt{out}}{\sqrt{c}} = A_{V_{i}}$ if we want Av to = 3 = and use 10KIR for BA $\frac{R_b}{10K0} + 1 = 3 \Rightarrow \frac{R_b}{10K} = 2$ Bb = 20 K Step 2. infinite input impedance (or zero input whent) $R_{in} = \frac{\sqrt{s_i}}{R_{si}} \qquad \infty = \frac{\sqrt{s_i}}{R_{si}} \Rightarrow 0$ Vout > VN1 30 curent flows left. Drop across RA is VN1 VN1 = Vout (RA - RB)