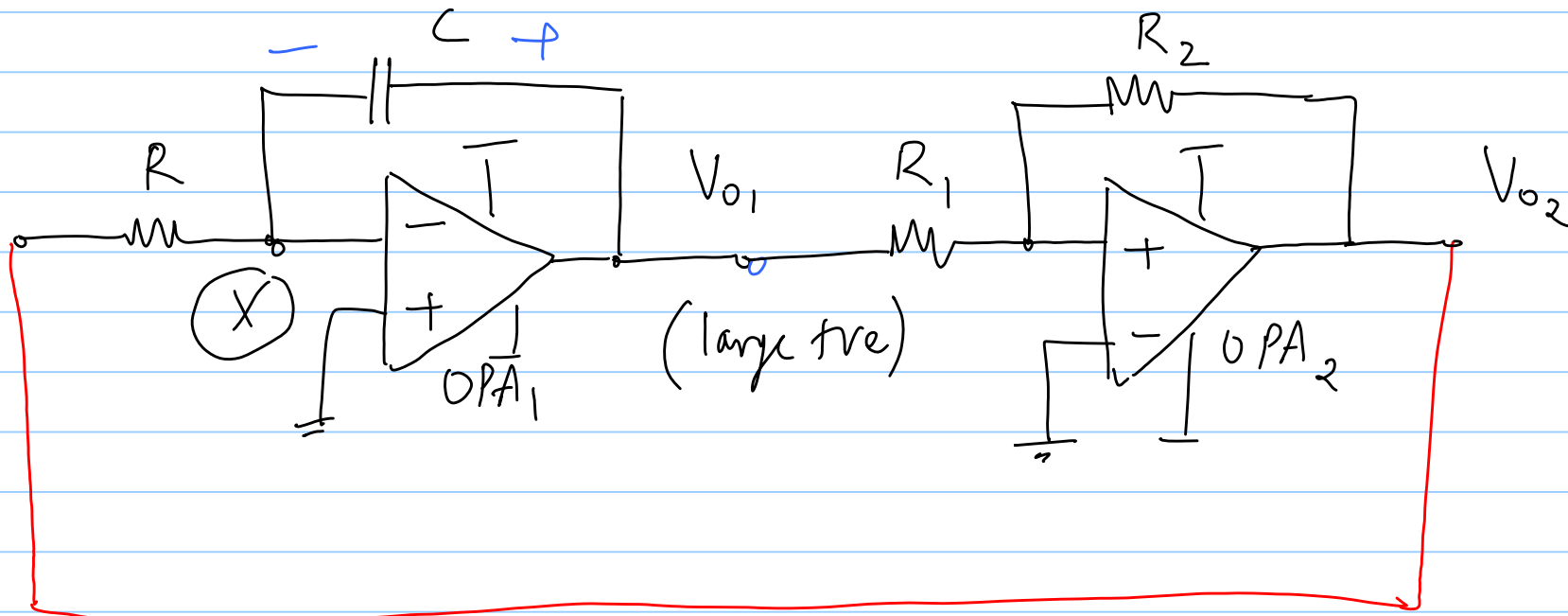
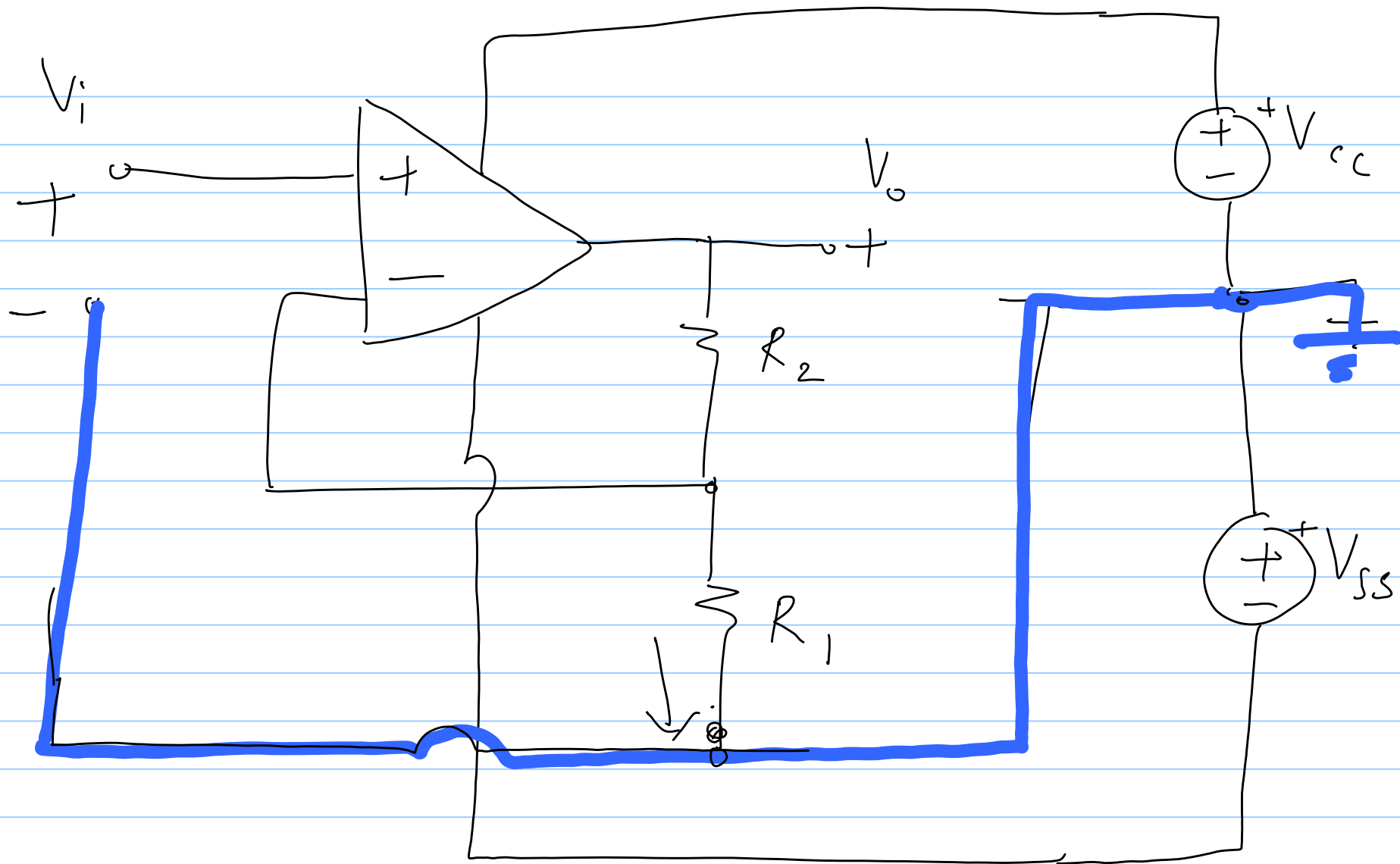
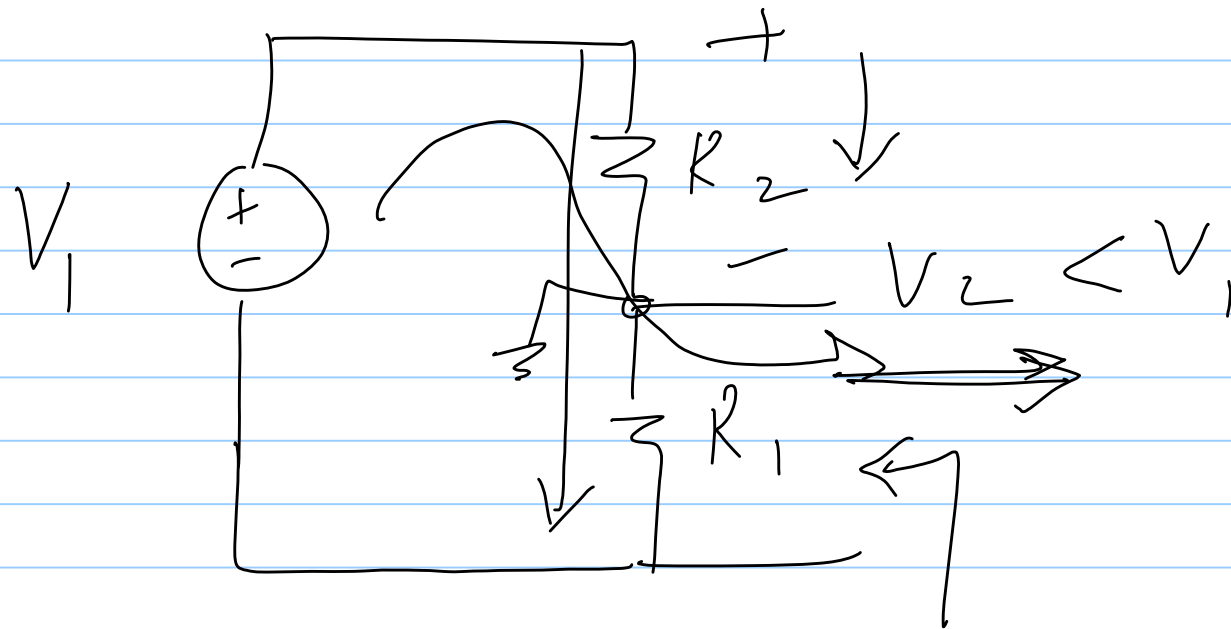


31/01/2019

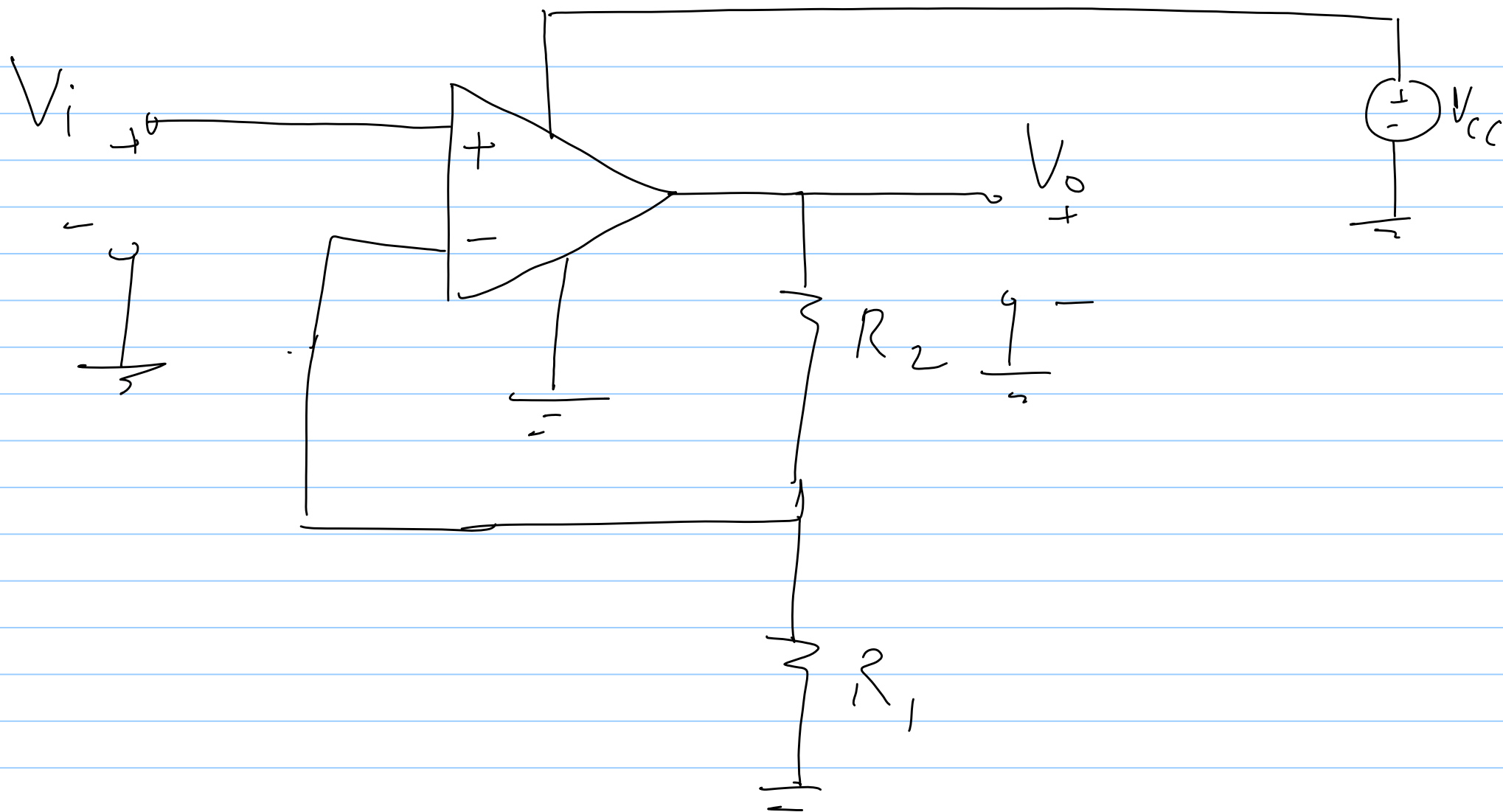
Lecture 10

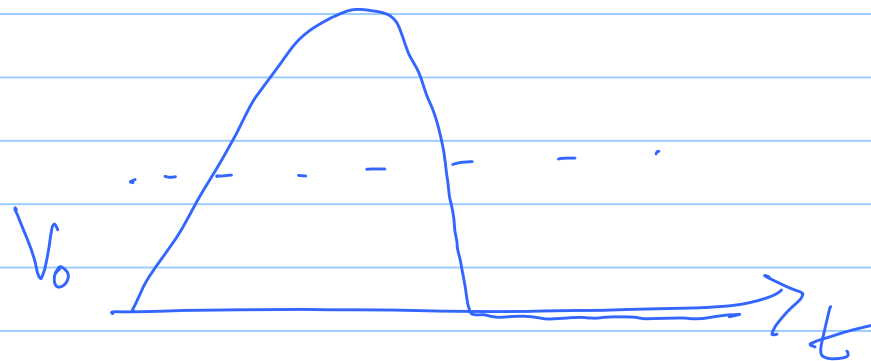
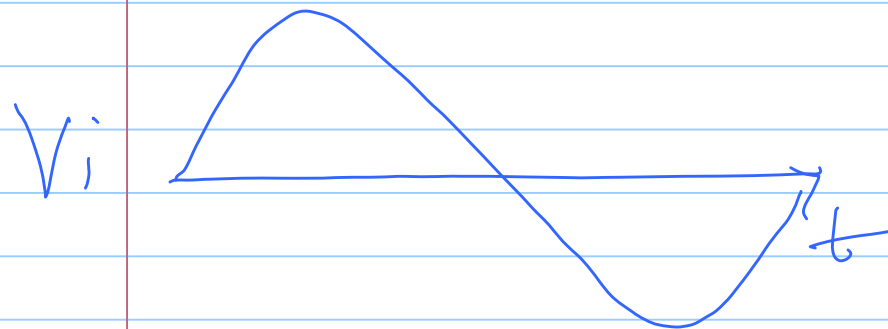
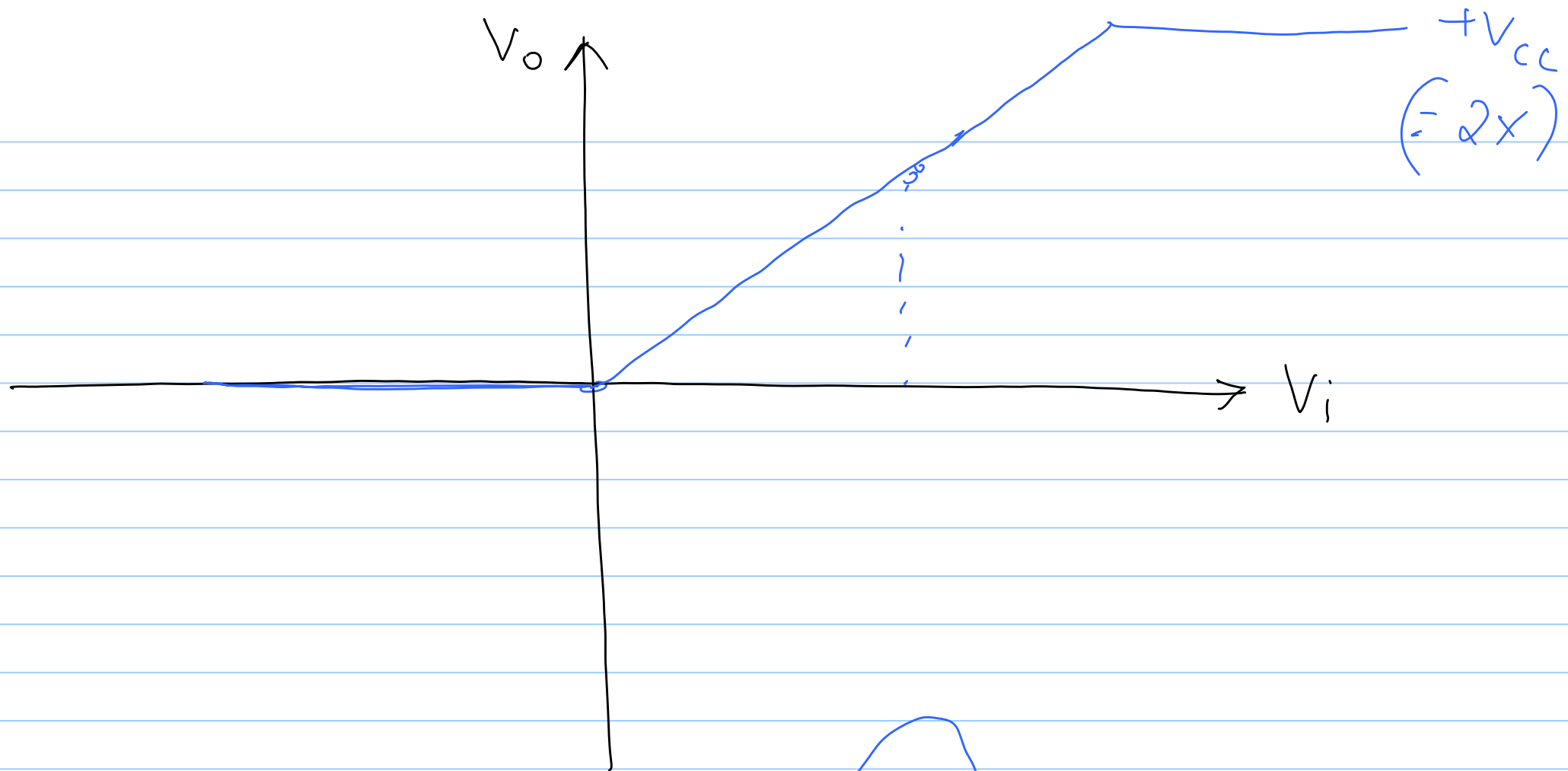


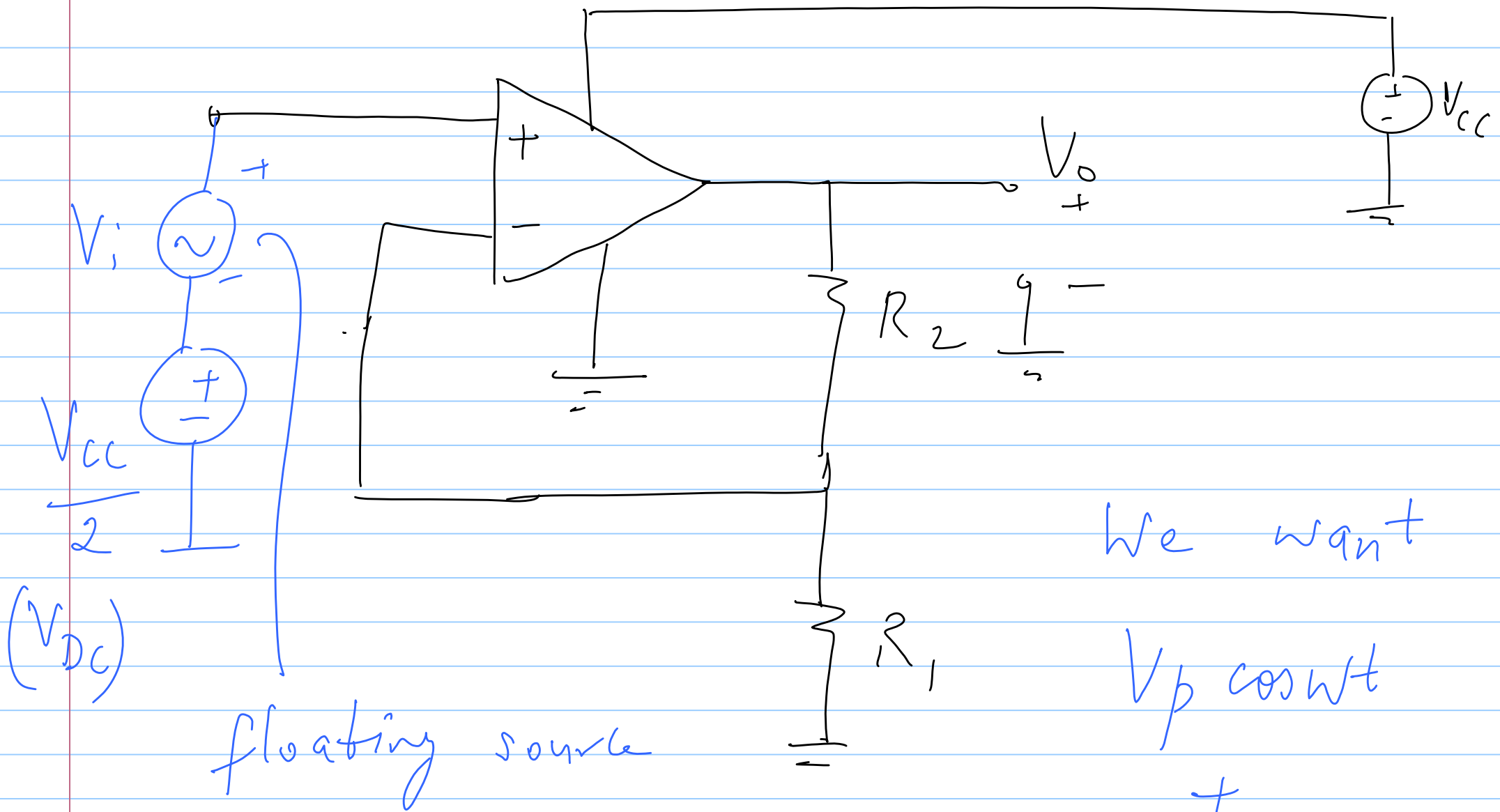




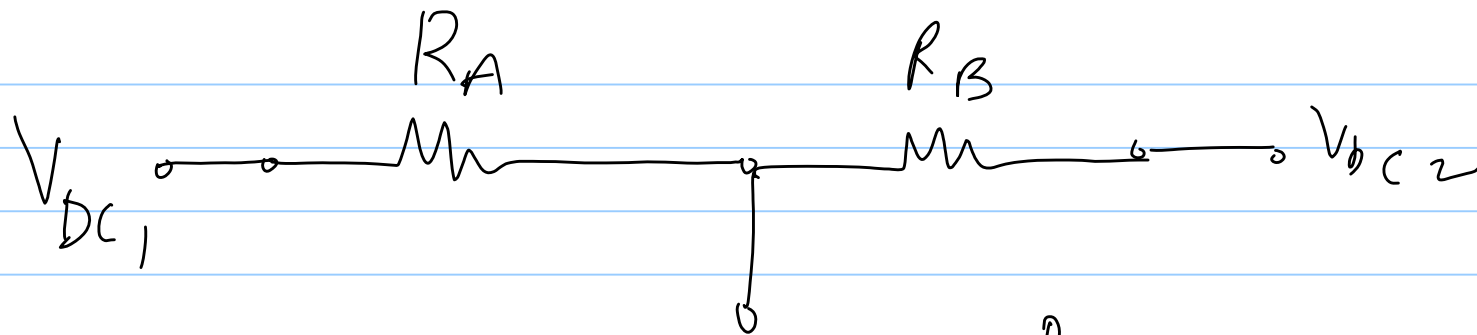
$$R_{out} = R_1 \parallel R_2$$



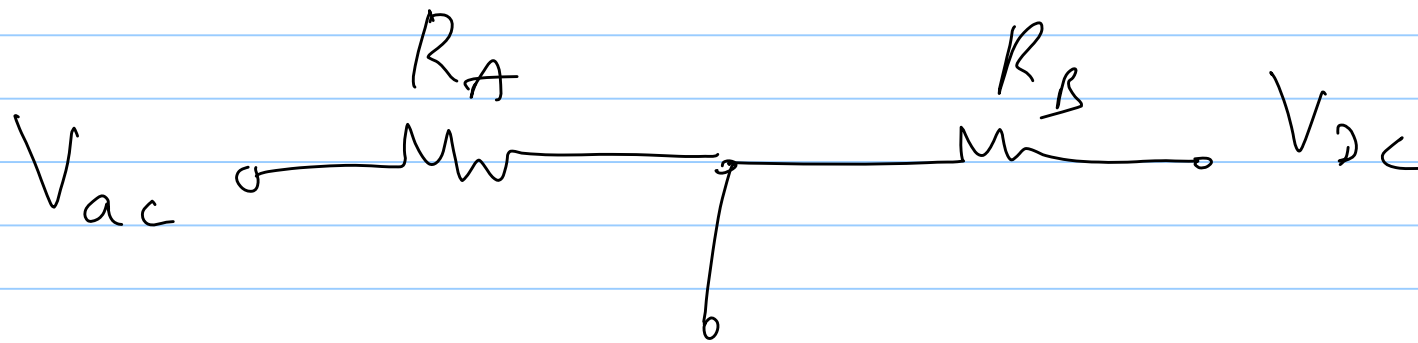




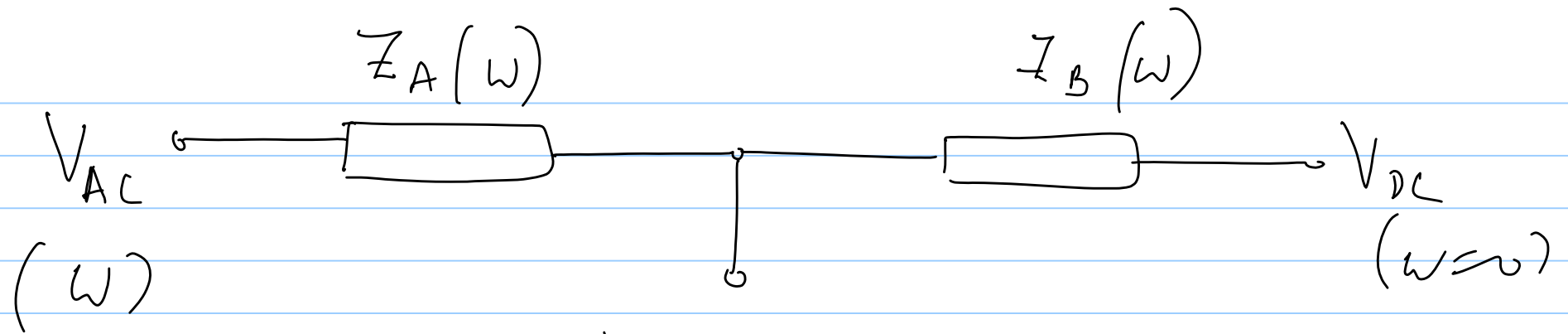
We want
 $V_p \cos \omega t$
 $+ V_{DC}$



$$V_X = \frac{R_B}{R_A + R_B} \cdot V_{DC1} + \frac{R_A}{R_A + R_B} \cdot V_{DC2}$$

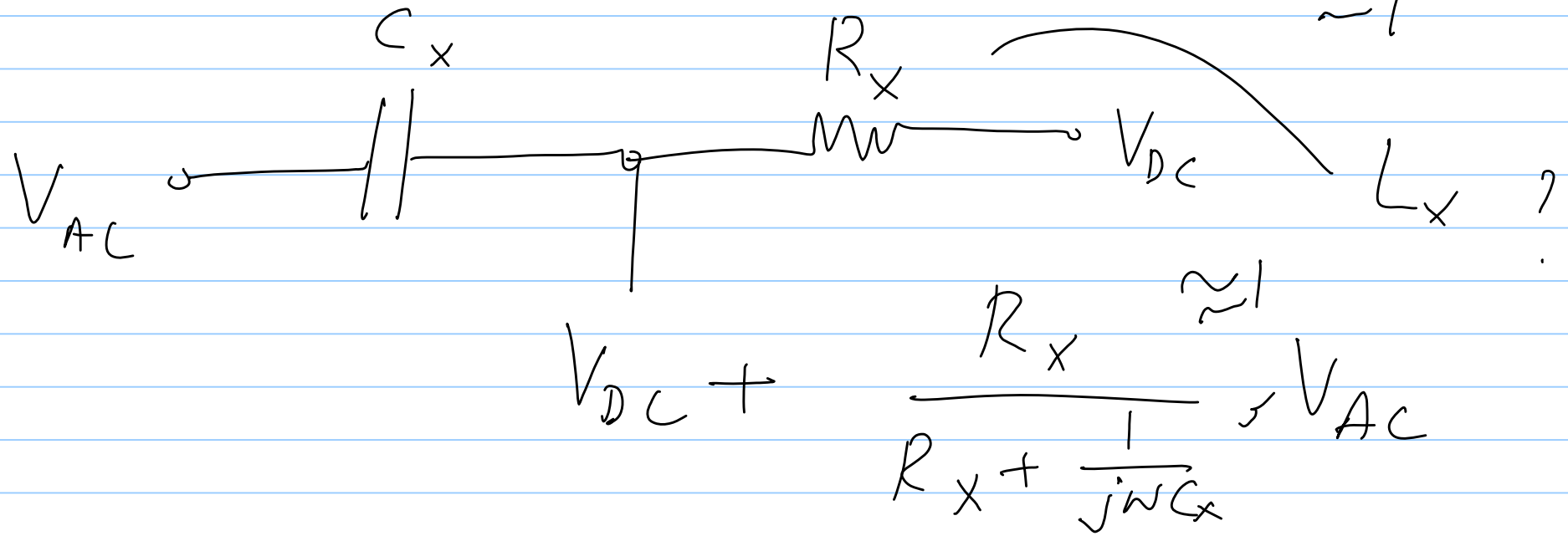


$$\frac{R_B}{R_A + R_B} \cdot V_{AC} + \frac{R_A}{R_A + R_B} V_{DC}$$



$$V_x = \frac{Z_B}{Z_A + Z_B} \cdot V_{AC} + \frac{Z_A}{Z_A + Z_B} \cdot V_{DC}$$

≈ 0
 ≈ 1



$$R_x \gg \frac{1}{\omega C_x}$$