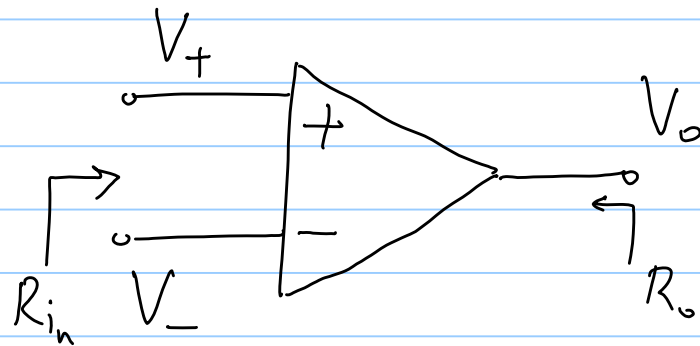


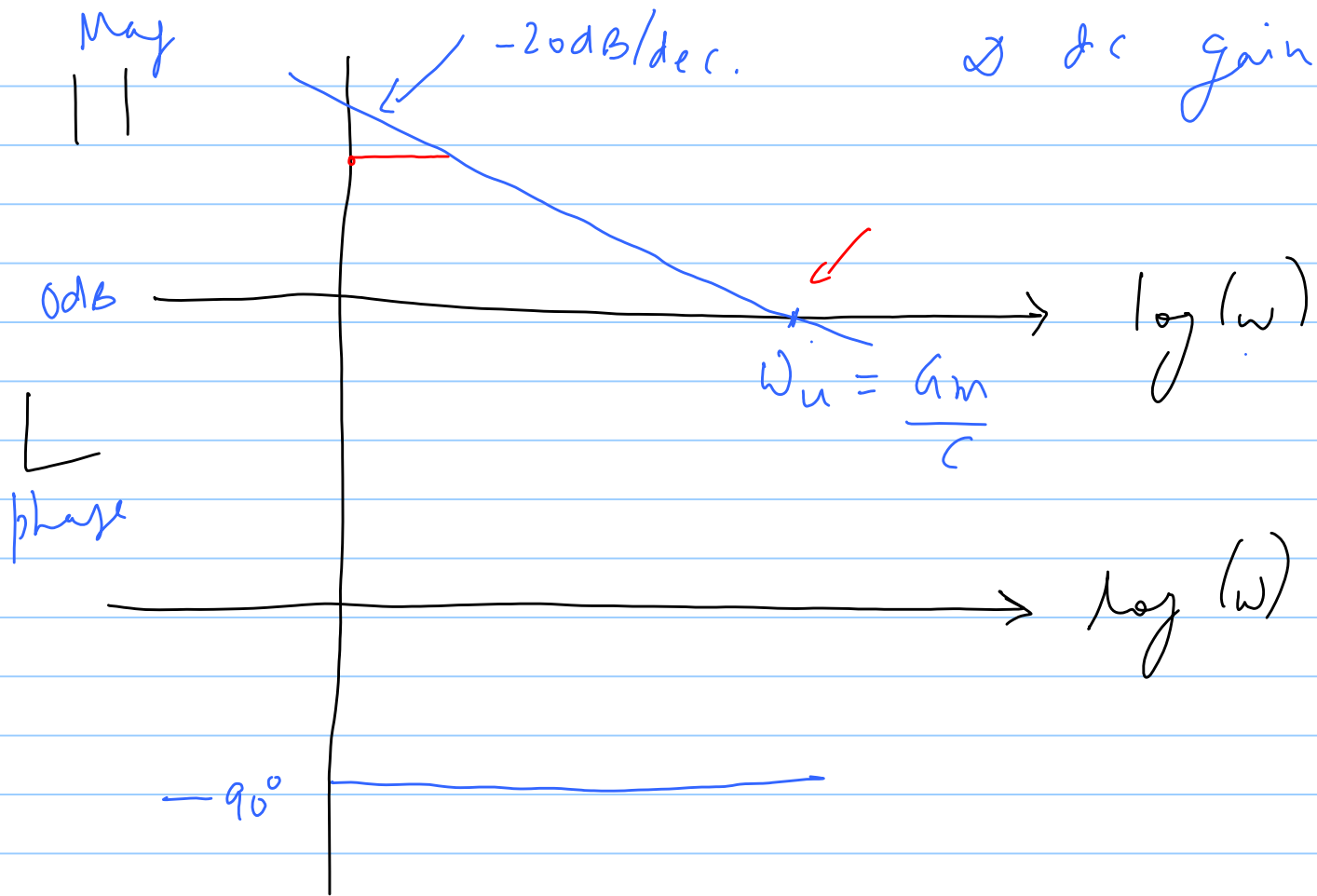
$$V_e(\infty) = 0$$

With  $R_o$ :  $V_e(\infty)$  is finite



"Operational Amplifier"  
"Opamp"

Ideal Opamp }  $R_{in} = \infty$  ;  $V_o = \frac{\omega_u}{1} \cdot (V_+ - V_-)$  ;  $\omega_u = \frac{g_m}{C}$   
 $R_o = 0$  ;



Non-ideal Opamp :  $R_{in} = \infty$  ,  $R_o = 0$

$$\frac{V_o}{V_+ - V_-}(s) = \frac{G_m \cdot R_o}{1 + sCR_o}$$

