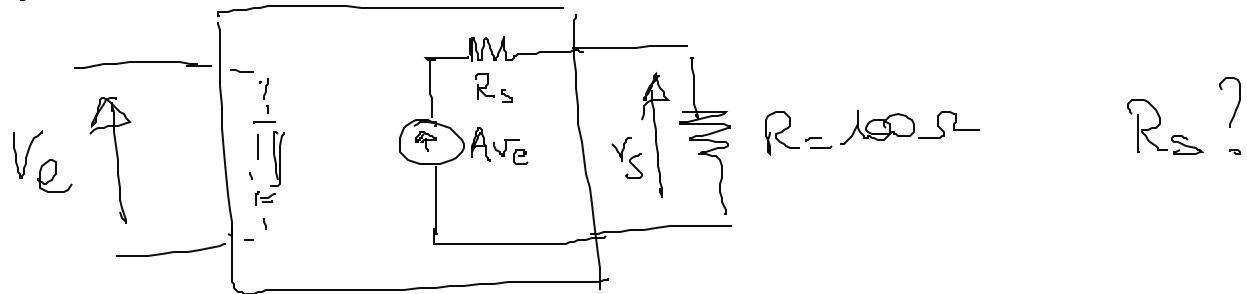


5.2

$$1) A(f) = \frac{A_0}{1 + j\omega/\omega_c}$$

3)



$$V_s = \frac{R \cdot A v_e}{R + R_s} \Rightarrow (R + R_s) v_s = R \cdot A \cdot v_e$$

$$R_s = \frac{R (A v_e - v_s)}{v_s} = R \left(\frac{A v_e}{v_s} - 1 \right)$$

$v_s = 91 \text{ mV}$ en B Fréquences \Rightarrow Gain de l'amp BF

$$\Rightarrow A_0 = 40 \text{ dB} \Rightarrow A_0 = 100.$$

AN: $R_s = 100 \left(\frac{100 \cdot 10^{-3}}{91 \cdot 10^{-3}} - 1 \right) \approx 10 \Omega$