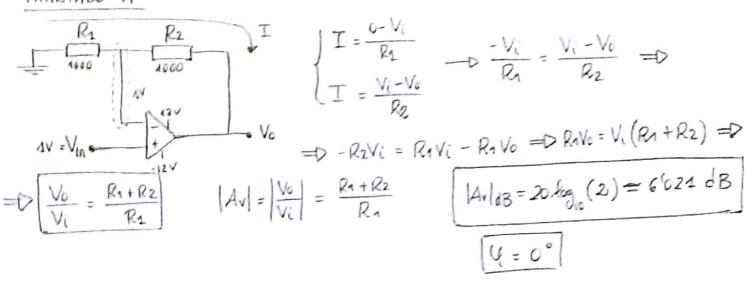
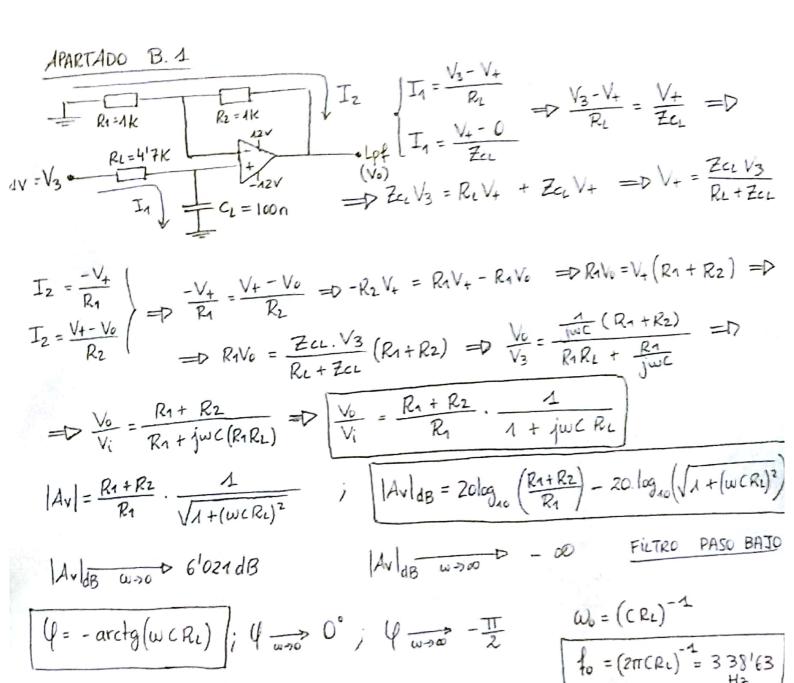
## APARTADO A





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$$\frac{APARTADO B.2}{I_{A} = R_{3} = 4K} = \frac{1}{R_{4} = AK}$$

$$I_{A} = \frac{V_{2} - V_{+}}{Z_{C}}$$

$$I_{A} = \frac{V_{3} - V_{+}}{Z_{C}}$$

$$I_{A} = \frac{V_{3} - V_{+}}{Z_{C}}$$

$$I_{A} = \frac{V_{4} - V_{+}}{Z_{C}}$$

$$I_{A$$

$$|A_V| = \left| \frac{V_0}{V_1} \right| = \frac{R_3 R_H + R_4 R_H}{R_3} \cdot \frac{\omega C}{\sqrt{A + (\omega C R_H)^2}}$$

$$|A_{V}|_{dB} = 20.\log_{10}\left(\frac{R_{3}R_{H} + R_{4}R_{H}}{R_{3}}\right) + 20.\log_{40}\left(\omega.c\right) + 20.\log_{40}\left(\sqrt{1 + \left(\omega cR_{H}\right)^{2}}\right)$$

$$\omega_0 = (CRH)^{-1}$$

$$f_0 = (2\pi CRH)^{-1} = 3386'28 \text{ Hz}$$