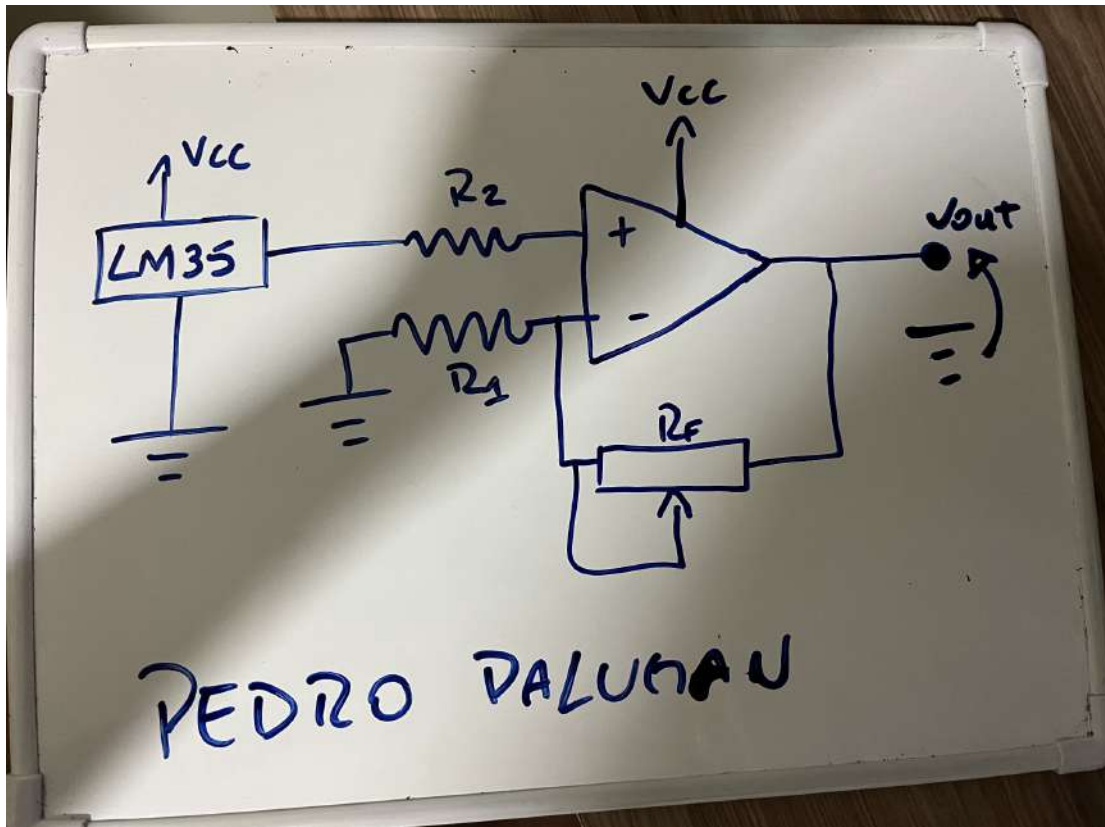


## Avaliação EO2 3º Bimestre

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Figura 1:



$$A_v = 1 + \left( \frac{R_F}{R_1} \right) \quad \left| \quad \begin{array}{l} R_F = 2,7 \text{ k}\Omega \\ R_1 = R_2 = 300 \Omega \end{array} \right.$$
$$R_1 = R_2$$

Tal que o ganho seja 10

$$R_F = 2,7 \text{ k}\Omega \Rightarrow A_v = 1 + \frac{2,7 \text{ k}}{300}$$
$$R_2 = 300 \Omega \quad A_v = 10 \text{ V/V}$$

Figura 2:

$$B_W = 15 \text{ kHz}, G = \frac{1 \text{ M}}{15 \text{ K}} = 66 \text{ V/V}$$

Qnts Amp  $\rightarrow$

$$A_V = v_{o1}/v_i = 3,5 / 8,5 \cdot 10^{-5} = 411,8 \text{ V/V}$$
$$v_i = 8,5 \text{ mV}$$
$$v_{o1} = 3,5 \text{ V}$$
$$G_B = 1 \text{ MHz}$$
$$B_{W+} = 1 \cdot 10^2 / 411,8 \Rightarrow$$
$$B_{W+} = 2,43 \text{ kHz}$$
$$B_{W+} < B_W (15 \text{ kHz})$$

$G_B + 1$  estágio

1º Estágio →

$$20,3 \text{ V/V} = A_{v1}$$

2º →  $A_{v2} = \frac{411,8}{20,3} = 20,3 \text{ V/V}$

$$R_1 = R_2 = 1,1 \text{ k}\Omega$$

$$R_{F1} = R_{F2} = 20 \text{ k}\Omega$$

$$V_{CC} = 12 \text{ V}$$

$$-V_{CC} = -12 \text{ V}$$

