b

$$f_0 = \frac{1}{2 \, \overline{\kappa} \sqrt{R_1 C_1 R_2 C_2}}$$

$$50 \times 10^{3} = \frac{1}{2\pi \sqrt{c^{2} \cdot 10^{0}}}$$

$$\frac{C_{-}}{R_{y}} = \frac{R_{1}}{R_{z}} + \frac{C_{z}}{C_{1}}$$

$$\frac{R_3}{R_4} = \frac{1h}{1h} + \frac{3/lnf}{3/lnf}$$

$$R_3 = 2 R_4$$