1.1.
$$V_R = V_{acm} - V_{vo} = 7,4 - 3 = 4,4B$$

 $R = V_R/I = \frac{4,4}{0,02} = 220 Q_{cd}$
 $P_R = V_R \cdot I_R = 4,4 \cdot 0,02 = 0,088BT$

1.2
$$V_{\text{oding}}^{-1} V_{\text{vo}_1}^{-1} V_{\text{vo}_2}^{-1} = 4.4 \text{ B} - \text{odinger pranque chemogarogod}$$

$$V_{R} = V_{\text{ucm}} - V_{\text{oding}}^{-1} = 11.7 - 4.4 = 7.3 \text{ B}$$

$$R = V_{R} = \frac{7.3}{0.02} = 365 \text{ Qui} \sim 390 \text{ Qui}$$

$$P = V_{R} \cdot \mathbf{I} = 7.3 \cdot 0.02 = 0.146 \text{ BT}$$

1.3
$$V_{qyn} = 4. V_{vo} = 4. 1.8 = 7.2B$$
 $V_{R} = V_{ucm} - V_{qyn} = 12.7 - 7.2 = 5.5B$
 $R = V_{R} = \frac{5.5}{9.02} = 275 \Omega_{su} \approx 280 \Omega_{su}$
 $P = V_{o} \cdot T_{vo} = 7.2 = 7.2B$

P=VR'IVD, = 5,5.0,07=0,11BT ambem: 4 peruemapa 280 au, 0,25 BT

Voul (R+R2)=V1. R.

$$R_2 = -R_{3Rb} \cdot R_{par} \longrightarrow R_2 = \frac{R_{3Rb} \cdot R_{par}}{R_{par} - R_{3Rb}} \longrightarrow \frac{R_2 \left(R_{3Rb} - R_{par}\right) = -R_{3Rb} \cdot R_{par}}{R_{par} - R_{3Rb}} \longrightarrow \frac{430 \cdot 1200}{1200 - 430} \approx \frac{670 \, \Omega_{par}}{670 \, \Omega_{par}}$$

$$R_{2Kb} = \frac{R_{2} \cdot R_{max}}{R_{2} + R_{max}} \Rightarrow R_{2} = \frac{R_{1} \cdot R_{2Kb}}{R_{2km} - R_{2Kb}} = \frac{82 \cdot 485,7}{485,7 - 82} \approx 100 \text{ Quy}$$

7-2