$$I_D \stackrel{\wedge}{\sim} I_s$$

$$V_{TH} = \frac{0.8 + 3}{2} = 1.9 v$$

$$K = \frac{10}{(V_{6S} - V_{TM})^2} = \frac{0.1}{(35 - 19)^2} \approx 0.039 \quad \frac{A}{V^2} = 39 \, \frac{MA}{V}$$

$$\frac{V_D}{Z} = \frac{12}{2} = 6v$$

$$R_{0} = 470 \text{ s} = \frac{12-6}{470} = \frac{6}{670} = 0,0128 \text{ A} = 12,8 \text{ m}$$

$$I_{D} = k (V_{GS} - V_{T})^{2}$$
  $\sim V_{GS}$   $\frac{t_{O}}{K} = (V_{GS} - V_{T})^{2}$ 

$$V_{K} = V_{GS} - V_{T}$$

$$-\frac{V_{6}}{3} = \frac{V_{DD}}{3} = 12 = hv$$

$$R_{S} = \frac{V_{S}}{I_{D}} = \frac{1.53}{0.6128} \approx 120 \text{ s}$$

R1, R2

$$R_1 = \frac{100 \, \text{k} \cdot 12 \, \text{l}}{4 \, \text{l}} \, 100 \, \text{k}$$

THE RES

