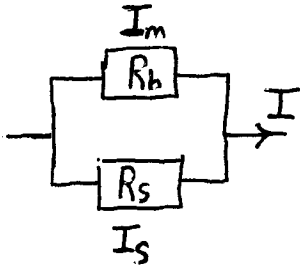


15.) $I_m = 10\text{mA} = 0,01\text{A}$ $R_b = 0,01\Omega$ $I = 2\text{A}$

$R_s = ?$

$I_{m2} = 3\text{mA} \rightarrow I_2 = ?$



$$U_m = U_s = U$$

$$\frac{I_m}{I_s} = \frac{R_s}{R_b}$$

$$I_s = I_m \frac{R_b}{R_s}$$

$$I_m + I_s = I$$

$$I_s = I - I_m$$

$$R_s = R_b \frac{I_m}{I_s} = \dots$$

$$I = I_m + I_s = I_m + I_m \frac{R_b}{R_s} = I_m \left(1 + \frac{R_b}{R_s} \right)$$

$$I_2 = I_{m2} \left(1 + \frac{R_b}{R_s} \right) = \dots$$