

## 1. Falsche Batterie

$$R = 100 \, \Omega; \quad R_i = 0.1 \, \Omega; \quad U_1 = U_2 = 1.5 \, \text{V}$$

a)

b)

$$U = \underline{\underline{1.499 \, \text{V}}}$$

$$I = \frac{U}{R} = \underline{\underline{14.99 \, \text{mA}}}$$

$$P = UI = \underline{\underline{22.485 \, \text{mW}}}$$

c)  $U_1 = 1.5 \, \text{V}; \quad U_2 = 1.2 \, \text{V}$