

2. Aufgabe

- (a) $U_Z = 1,41 \text{ V}$
 $f = 83,3 \text{ Hz}$
 $\varphi_{UZ} = 60^\circ$
- (b) $Z = 8 \angle 60^\circ \Omega$
- (c) $R = 4 \Omega$
 $L = 13,2 \text{ mH}$
- (d) $R_{\text{Cu}} = 3 \Omega$
 $R_{\text{Fe}} = 49 \Omega$
 $L = 13,5 \text{ mH}$

3. Aufgabe

- (a) $I_N = 589 \text{ mA}$
- (b) $C_1 = 5,85 \mu\text{F}$
 $C_2 = 15,16 \mu\text{F}$
- (c) $U_{\text{min}} = 59,5 \text{ V}$
 $C = 8,44 \mu\text{F}$
- (e) $C = 7,88 \mu\text{F}$