

1. Aufgabe

- (a) $\hat{\phi} = 120 \mu\text{Wb}$
 $\hat{u}_{ab} = 120 \text{ mV}$
- (b) $\hat{i} = 12 \text{ A}$
- (c) $L = 1 \mu\text{H}$
 $W = 9 \mu\text{J}$

2. Aufgabe

- (b) $R = 15 \Omega$
 $L = 955 \mu\text{H}$
- (c) $\underline{Z}_{iE} = (20 - j40) \Omega$
 $\underline{U}_{qE} = (12 + j12) \text{ V}$
- (d) $\underline{I}_{AB} = 364 \text{ mA exp}\{j91,7^\circ\}$
 $\underline{U}_{AB} = 4,88 \text{ V exp}\{j118^\circ\}$
 $Q_6 = -357 \text{ mvar}$

3. Aufgabe

- (a) $f > \frac{1}{2\pi RC}$
- (c) $f_r = 2,52 \text{ MHz}$