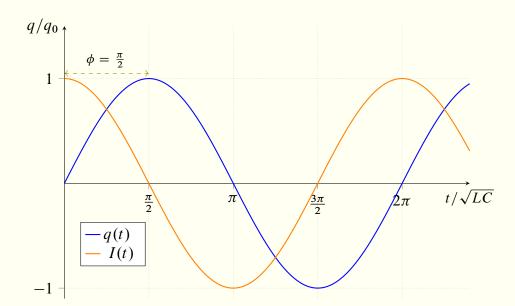
## 1. LC-Schaltkreis mit/ohne Wechselstrom

(a)

$$\frac{q(t)}{C} = L \frac{\mathrm{d}^2 q}{\mathrm{d}t^2}$$
$$q(t) = q_0 \cos\left(\frac{1}{\sqrt{LC}}t\right)$$



(b)

## 2. Serienschwingkreis

 $L=0.1~\mathrm{H}; \quad R=100~\Omega; \quad C=0.47~\mathrm{\mu F}; \quad U_0=3~\mathrm{V}$ 

(a)

(b)

(c)

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3. Elektrische Verschiebung				
	(a)			
	(b)			
	(c)			
	(d)			
	(e)			
	(f)			