## 一、填空题

- 1. -3V; 0.4A
- 2. 8.6 J
- 3.  $4\Omega$ ; 0.1H
- 4.  $[\delta(t) 10e^{-10t}\varepsilon(t)]$ V
- 5.  $25\Omega$ ;  $95.5\mu$ F

## 二、计算题

1. 
$$P_{4V} = -12 \,\mathrm{W}; P_{5A} = 100 \,\mathrm{W}$$

2. 
$$u_C = (5 + 45e^{-10t}) V$$
,  $t \ge 0$ 

- 3. (1) 相量模型略
  - (2)  $i_L(t) = 10\cos(5t 171.9^\circ) A$

4. (1) 
$$R_{.L} = 6\Omega$$
时, $P_{\text{max}} = \frac{27}{8}$ W

- (2) 36W
- 5. (1) 复频域模型略

(2) 
$$u(t) = 7.1\sqrt{2}\cos(2t + 147.2^{\circ}) \text{ V}$$

- 6. (1) 52 W,78 W
  - (2) 0.8A