

D3.1

- $2\ \mu\text{F}$

D3.2

- $4\ \text{mH}$

D3.3

- $v_o(t) = 4e^{-t/0.2}\ \text{V}$ and $i_o(t) = 2e^{-t/0.2}\ \text{mA}$.

D3.4

- $v_o(t) = 6e^{-4.5t}\ \text{V}$.

D3.7

- (a) underdamped, (b) critically damped, (c) overdamped.

D3.9

- $v(t) = -8e^{-t} + 8e^{-3t}\ \text{V}$.