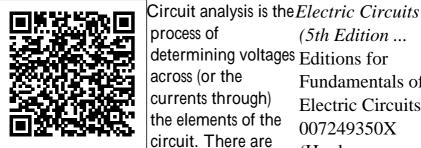# Fundamentals Of Electric Circuits Second Edition Encon

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The differential

equation that describes
the voltage in an R L C
network is d 2 v d t 2 +
5 d v d t + 4 v = 0
Given that v (0) = 0, d
v (0) / d t = 10, obtain
v (t).
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Substituting (2) into (1),

$$V_{40} = (1 + j2) \, 2 + j4 V_2 \quad 1.1$$

$$Z_{Th} = V_2 = 44 \, 1 + j6.4 V_2 = 1.05 - j6.71 \quad 1$$

$$R_L = Z_{Th} = 6.792$$

To find V_{Th}, consider the circuit in Fig. (b).

40 W Io V1 4 Io V2 + - +

120∠0° V + - -j20 W -j10 W Vth -

(b)

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