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Given that $v(0) = 0$, $dv(0) / dt = 10$, obtain $v(t)$.

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An electric

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Circuit is simply an interconnection of the elements.

Circuit analysis is the process of determining voltages across (or the currents through) the elements of the circuit. There are two types of elements found

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and active
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to as an
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circuit, and
each component
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is known as an element. An electric circuit is an interconnection of electrical elements. A simple electric circuit is shown in Fig. 1.1. It consists of three basic elements: a battery, a lamp,

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and connecting wires. Such a simple circuit can exist by itself; it has several applications, such as a flash-

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Substituting (2)
into (1), $V_{40} =$
 $(1 + j2) 2 + j4$
 $V_{20} = 1 \cdot 1 \cdot Z_{Th} =$

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$$V_2 = 44.1 + j6.4$$

$$V_2 = 1.05 - j6.71 \Omega \quad 1 \text{ R L} =$$

$Z_{Th} = 6.792 \Omega$
To find V_{Th} ,

consider the
circuit in Fig.

(b). 40 W I_o V_1
4 I_o V_2 + - +
120∠0° V + --j20
W-j10 W V_{th} -

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