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The differential equation that Page 17/40

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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passive elements and active elements.

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of three basic elements: a battery, a lamp, and connecting wires. Such a simple circuit can exist by itself; it has several applications, such as a flash-

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W-j10 W Vth - (b) Fundamentals of Electric Circuits, Second

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