

setting all the independent sources to zero and then turning each one on individually. Total $v_{a-a'}$ is the sum of the individual components. With I_1 set to zero (open circuit), it follows that

$$v_{a-a'} = \frac{R_1 + R_2}{R_1 + R_2 + R_3} V_1$$

Note that R_4 does not affect $v_{a-a'}$, because it appears directly in parallel with V_1 .

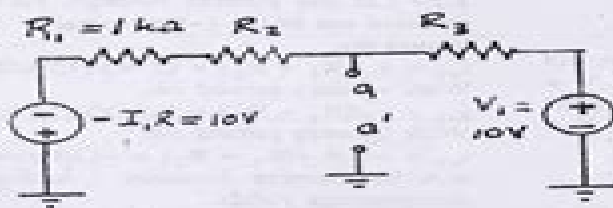
With V_1 set to zero (short circuit), current division yields the current through R_3 , so that

$$v_{a-a'} = -I_1 \frac{R_1}{R_1 + (R_2 + R_3)} R_3$$

Combining $v_{a-a'}$ and $v_{a-a'}$ yields

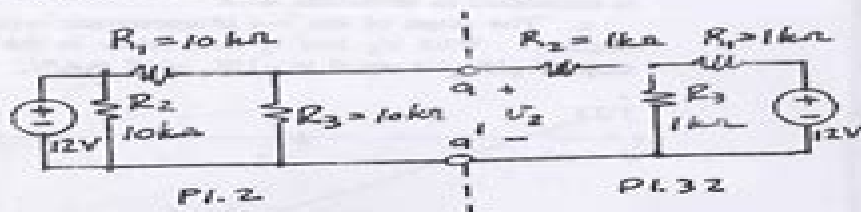
$$v_{a-a'} = \frac{(R_1 + R_2)V_1}{R_1 + R_2 + R_3} - \frac{(R_1 R_3)I_1}{R_1 + R_2 + R_3}$$

1.31 First find the Thévenin equivalent of everything to the left and to the right of terminals $a-a'$. Looking to the left yields $v_{Th} = I_1 R_1 = 10$ V and $R_{Th} = R_1 + R_2$. (R_2 does not contribute to $v_{Th} = v_{OC}$, since no current flows through it when I_1 , R_1 , and R_2 are disconnected as a unit from the circuit). Similarly, looking to the right yields $v_{Th} = V_1 = 10$ V and $R_{Th} = R_3$. Note that R_4 , which appears directly in parallel with a voltage source, has no effect on v_{Th} or R_{Th} . Here is a diagram of the equivalent circuit as seen at terminals $a-a'$:

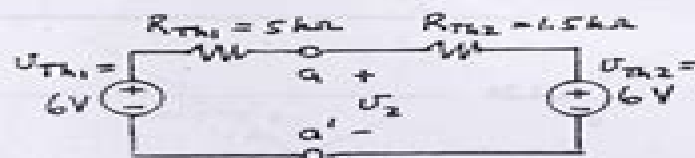


Clearly, given the balanced nature of the circuit, $v_{a-a'}$ can be made zero if we choose R_2 and R_3 such that $R_1 + R_2 = R_3 \Rightarrow R_3 - R_1 = 1$ kΩ. Choice of R_4 is arbitrary.

1.32 Shown below is the entire circuit with both parts connected. The objective is to find v_2 .



As a first step, the Thévenin equivalent of each half of the circuit is taken, as shown below.

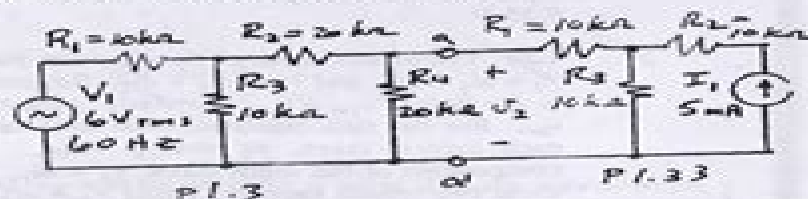


Now, using superposition, the value of v_2 can easily be computed:

$$\begin{aligned} v_2 &= \frac{R_{Th2}}{R_{Th1} + R_{Th2}} v_{Th1} + \frac{R_{Th1}}{R_{Th1} + R_{Th2}} v_{Th2} \\ &= \frac{1.5 \text{ k}\Omega}{6.5 \text{ k}\Omega} (6 \text{ V}) + \frac{5 \text{ k}\Omega}{6.5 \text{ k}\Omega} (6 \text{ V}) = 6 \text{ V} \end{aligned}$$

This result should be evident by inspection anyway, since a Thévenin source of value 6 V is connected on both sides of the circuit.

1.33 Shown below is the entire circuit with both parts connected. The objective is to find v_2 .



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David A. Bell



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 - The Rise of Digital Reading Microelectronic Circuits And Devices Horenstein Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Microelectronic Circuits And Devices Horenstein Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microelectronic Circuits And Devices Horenstein Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microelectronic Circuits And Devices Horenstein Solution Manual
 - Personalized Recommendations
 - Microelectronic Circuits And Devices Horenstein Solution Manual User Reviews and Ratings
 - Microelectronic Circuits And Devices Horenstein Solution Manual and Bestseller Lists
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 - Highlighting and Note-Taking Microelectronic Circuits And Devices Horenstein Solution Manual
 - Interactive Elements Microelectronic Circuits And Devices Horenstein Solution Manual
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 - Participating in Virtual Book Clubs
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 - Benefits of a Digital Library
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microelectronic Circuits And Devices Horenstein Solution Manual
 - Setting Reading Goals Microelectronic Circuits And Devices Horenstein Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microelectronic Circuits And Devices Horenstein Solution Manual
 - Fact-Checking eBook Content of Microelectronic Circuits And Devices Horenstein Solution Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

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- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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