

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

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

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

$$v_{a-a''} = v_{a-a''} + v_{a-a''}$$

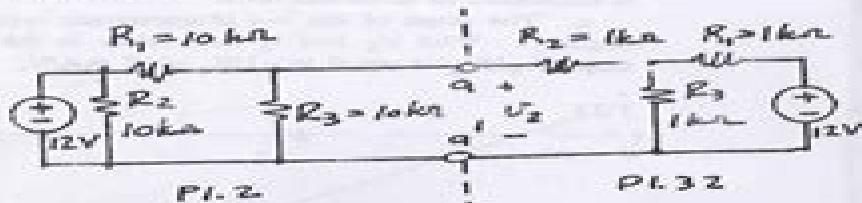
$$\frac{(R_1 + R_2)V_1}{R_1 + R_2 + R_3} - \frac{(R_1 R_3)I_1}{R_1 + R_2 + R_3}$$

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 $v_{Th1} = I_1 R_1 = 10 \text{ V}$ and $R_{Th1} = R_1 + R_2$. (R_2 does not contribute to $v_{Th1} = v_{OC}$, 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 $v_{Th2} = V_1 = 10 \text{ V}$ and $R_{Th2} = R_3$. Note that R_4 , which appears directly in parallel with a voltage source, has no effect on v_{Th1} or R_{Th1} . Here is a diagram of the equivalent circuit as seen at terminals $a-a''$:

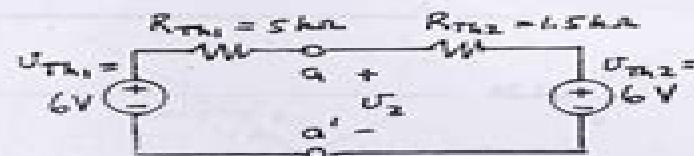


Clearly, given the balanced nature of the circuit, $v_{a-a''}$ can be made zero if we choose R_2 and R_3 such that $R_1 + R_2 = R_3 \Rightarrow R_3 = R_1 + R_2 = 1 \text{ k}\Omega$. Choice of R_4 is arbitrary.

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:

$$v_2 = \frac{R_{Th2}}{R_{Th1} + R_{Th2}} v_{Th1} + \frac{R_{Th1}}{R_{Th1} + R_{Th2}} v_{Th2}$$

$$= \frac{1.5 \text{ k}\Omega}{6.5 \text{ k}\Omega} (6 \text{ V}) + \frac{5 \text{ k}\Omega}{6.5 \text{ k}\Omega} (6 \text{ V}) = 6 \text{ V}$$

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 .



Microelectronic Circuits 6th Edition Exercise Solution Manual

**Vincent C. Gaudet, Kenneth Carless
Smith**

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Solutions Manual for Microelectronic Circuits Adel S. Sedra, Kenneth Carless Smith, 1982 Forthcoming Books
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Additional Problems with Solutions Kenneth C. Smith, Adel S. Sedra, 1992 This is a collection of problems and solutions with tabulated answers designed to accompany the third edition of Microelectronic Circuits by Adel Sedra and Kenneth C. Smith. The goal of this supplement is to motivate and assist in the dynamic process of active learning. The problems in this supplement are intentionally coupled in a variety of ways to the exercises and problems in the text. It contains 645 problems incorporating 90 figures with solution embodying 140 figures. Of the 645 problems more than 168 involve direct design practice

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Instructor's Manual for Microelectronic Circuits Adel S. Sedra, Kenneth C. Smith, 1991 *Solutions Manual to Accompany Introductory Circuit Analysis, 6th Edition*

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