setting all the independent sources to zero and then turning each one on individually. Total v_{k-n} is the sum of the individual components. With l_1 set to zero (open circuit), is follows that

$$V_{a=a1} = \frac{R_1 + R_2}{R_1 + R_2 + R_3} V_1$$

Note that R_a does not affect v_{a-a1} , because it appears directly in parallel with V_1 .

With V set to zero (short circuit), current division yields the current through R3, so that

$$v_{s-s2} = -I_1 - \frac{R_1}{R_1 + (R_2 + R_3)} - R_3$$

Combining v_{n-1} and v_{n-2} yields $v_{n-1} = v_{n-1}$, $v_{n-2} = v_{n-1}$

$$(R_1 + R_2)V_1 = (R_1R_3)I_1$$

 $R_1 + R_2 + R_3 = R_1 + R_2 + R_3$

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 $v_{Th} = I_1R_1 = 10 \text{ V}$ 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 $v_{Th} = V_1 = 10 \text{ V}$ 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_{*-*} can be made zero if we choose R_2 and R_3 such that $R_1 + R_2 = R_3 \Rightarrow R_3 - R_1 = 1$ k Ω . Choice of R_4 is arbitrary.

1.32 Shown below is the entire circuit with both parts connected. The objective is to find v₂.



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



Now, using superposition, the value of v₂ 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 Thevenin 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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Karin Nielsen-Saines

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