

$$i_s = 68.15 \text{ A}$$

Find V'_n using Ohm's Law:

$$V_{s1} - V'_n = i_s \cdot (R_1 + R_{1eq})$$

$$V'_n = -7.19 \text{ V}$$

Problem 3.38

The circuit shown in Figure P3.35 is a simplified DC version of a typical three-wire, three-phase AC wye-wye (Y-Y) distribution system. Use the Principle of source transformations to determine v_n . Assume:

$$V_{s1} = V_{s2} = V_{s3} = 170 \text{ V}$$

$$R_{B1} = R_{B2} = R_{B3} = 0.7 \text{ ohm}$$

$$R_1 = 1.9 \text{ ohm } R_2 = 2.3 \text{ ohm}$$

$$R_3 = 11 \text{ ohm}$$

Solution:

Known quantities:

The values of the voltage sources, $V_{s1} = V_{s2} = V_{s3} = 170 \text{ V}$, and the values of the 6 resistors in the circuit of Figure P3.35:

$$R_{B1} = R_{B2} = R_{B3} = 0.7 \text{ } \Omega$$

$$R_1 = 1.9 \text{ } \Omega \quad R_2 = 2.3 \text{ } \Omega \quad R_3 = 11 \text{ } \Omega$$

Find:

v'_n using source transformations.

Analysis:

Combine resistors in series i.e. R_{B1} and R_1 . V_{s1} is a thevenin source with R_{1eq} . The same goes for V_{s2} and R_{B2} and V_{s3} and R_{B3} . Convert all Thévenin sources to Norton sources and the two nodes of the new circuit are v_n and ground. Combine parallel resistors and current sources to find R_{eq} and I_s .

First find currents:

$$i_{s1} = \frac{V_{s1}}{R_{1eq}} = 65.39 \text{ A from ground toward } v_n$$

$$i_{s2} = \frac{V_{s2}}{R_{2eq}} = 56.67 \text{ A from } v_n \text{ toward ground.}$$

$$i_{s3} = \frac{V_{s3}}{R_{3eq}} = 14.53 \text{ A from } v_n \text{ toward ground.}$$

Find Total current:

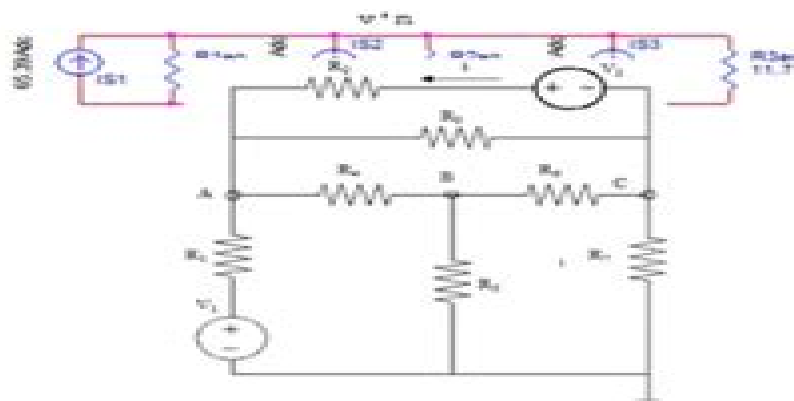
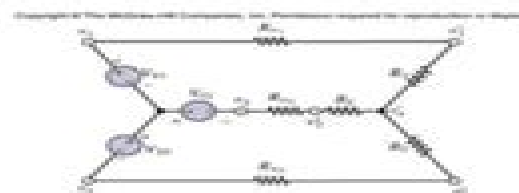
$$I_s = i_{s1} - i_{s2} - i_{s3} = -5.81 \text{ A}$$

Find Equivalent Resistance:

$$R_{eq} = (R_{1eq} || R_{2eq} || R_{3eq}) = 1.24 \Omega$$

Solve for v_n :

$$v'_n = I_s \cdot R_{eq} = -7.20 \text{ V}$$



Problem 3.39

Use nodal analysis in the circuit of Figure P3.39 to find the three indicated node voltages and the current i .

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Albert Thumann, D. Paul Mehta



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