

Problem 3.16

Using mesh analysis, find the voltage, v , across the $3\text{-}\Omega$ resistor in the circuit of Figure P3.16.

Solution:

Circuit shown in Figure P3.16.

Find:

Voltage across the 3Ω resistance.

Analysis:

Meshes 1, 2 and 3 are clockwise from the left and are oriented clockwise.

For mesh #1:

$$-2 + 1i_1 + 2(i_1 - i_2) + 3(i_1 - i_3) = 0$$

For mesh #2:

$$2(i_2 - i_1) + 2i_2 + 1 + 1(i_2 - i_3) = 0$$

For mesh #3:

$$3(i_3 - i_1) + 1(i_3 - i_2) + 1i_3 = 0$$

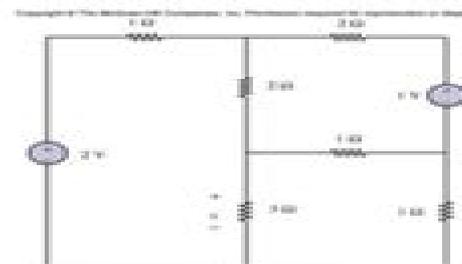
Solving,

$$i_1 = 0.5224 \text{ A}$$

$$i_2 = 0.0746 \text{ A}$$

$$i_3 = 0.3284 \text{ A}$$

and $v = 3(i_1 - i_3) = 3(0.194) = 0.582 \text{ V}$

**Problem 3.17**

Using mesh analysis, find the currents I_1 , I_2 , and I_3 in the circuit of Figure P3.17 (assume polarity according to I_2).

Solution:

Mesh #1 (on the left-hand side)

$$2 - 2I_1 - 3(I_1 - I_2) = 0$$

If we treat mesh #2 (middle) and mesh #3 (on the right-hand side) as a single loop containing the four resistors (but not the current source), we can write

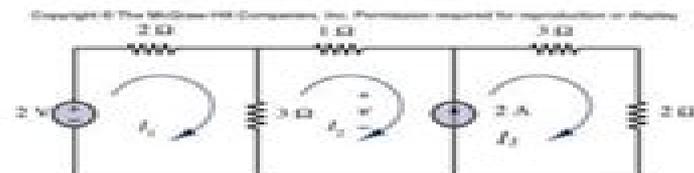
$$-1I_2 - 3I_3 - 2I_3 - 3(I_2 - I_1) = 0$$

From the current source:

$$I_3 - I_2 = 2$$

Solving the system of equations:

$$I_1 = -0.333 \text{ A} \quad I_2 = -1.222 \text{ A} \quad I_3 = 0.778 \text{ A}$$



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