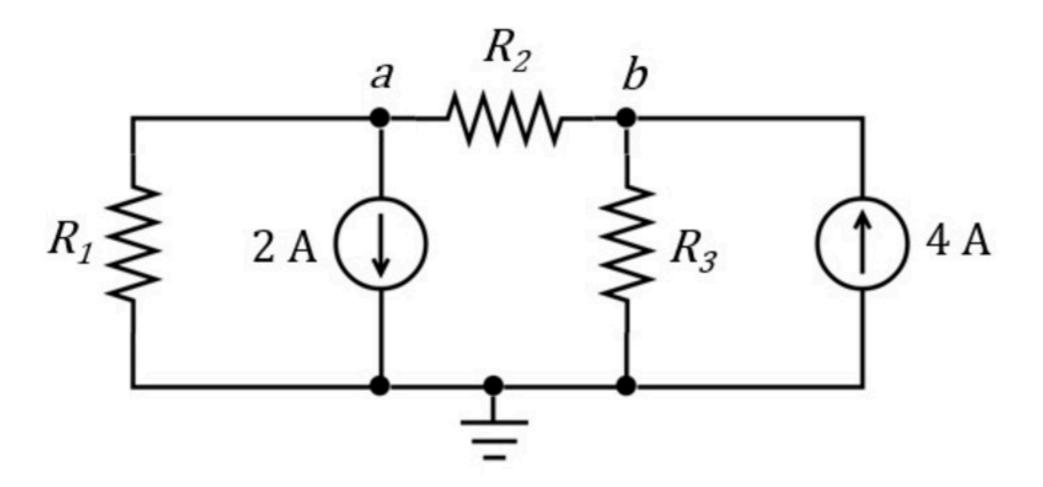
Nodal Mesh 001

Problem has been graded.

Find the node voltages v_a and v_b . Use nodal analysis.



Given Variables:

R1:3 ohm

R2:6 ohm

R3:1 ohm

Calculate the following:

va (V):

vb (V):

Find the node voltages v_a and v_b . Use nodal analysis.

$$R1 = 2 \Omega$$

$$R2 = 1 \Omega$$

$$R3 = 1 \Omega$$

$$R_1 \ge 2 A \bigcirc A \bigcirc A$$

€ KCLDa:
$$\frac{\sqrt{a}}{2} + \frac{\sqrt{a-\sqrt{b}}}{1} + 2 = 0 \Rightarrow 3\sqrt{a} - 2\sqrt{b} = -4$$
 (1)

(3