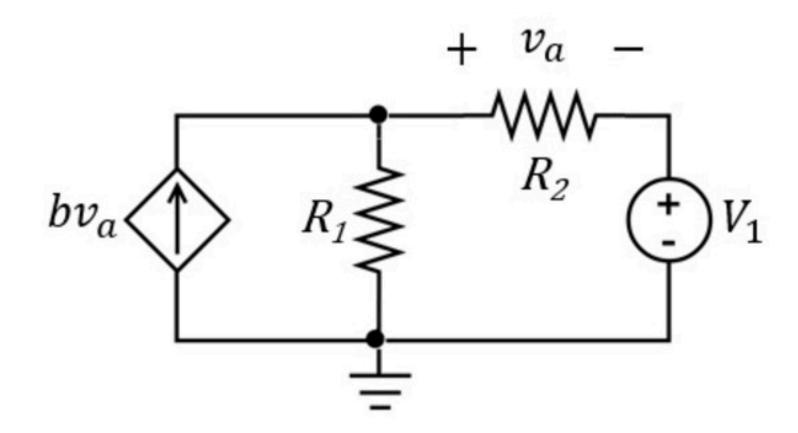
Nodal Mesh 009

Problem has been graded.

Find the voltage v_a . Use mesh analysis.



Given Variables:

R1:3 ohm

R2:4 ohm

b:1A/V

V1:10 V

Calculate the following:

va (V):

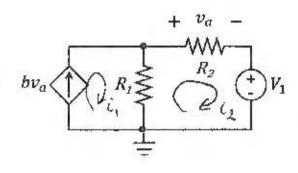
$$R1 = 3 \Omega$$

Find the voltage v_{α} . Use mesh analysis.

$$R2 = 2 \Omega$$

$$b = 1.5 A/V$$

$$V1 = 10 V$$



$$\hat{\mathcal{E}} \quad \hat{\mathcal{L}}_1 = \hat{\mathcal{E}}, \quad \nabla_{\alpha} = \hat{\mathcal{E}} \quad \hat{\mathcal{E}}_2 = \hat{\mathcal{E}} \quad \hat{\mathcal{E}}_2$$

$$U_{\alpha} = L_2 \cdot R_2 = 5V \Rightarrow U_{\alpha} = 5V$$

CHECK . KVL