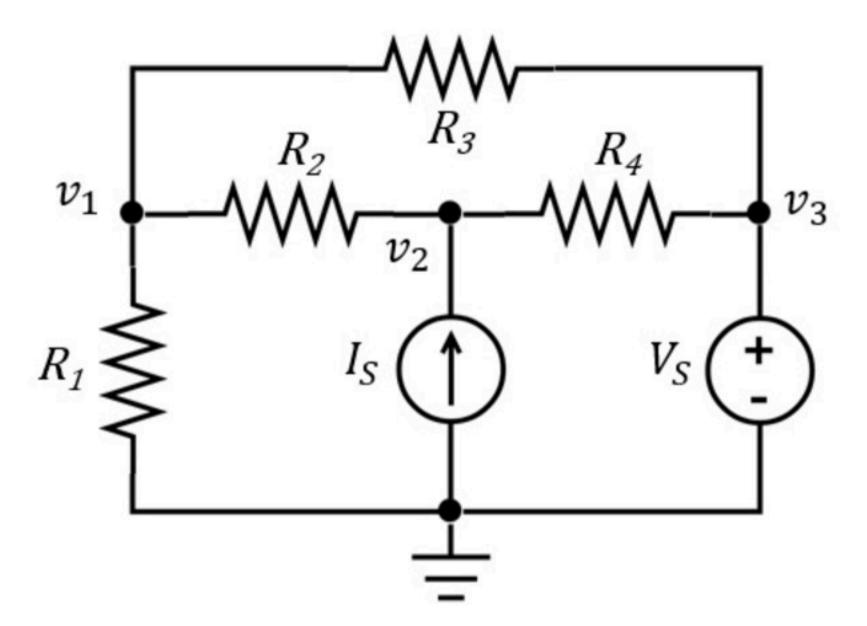
## Nodal Mesh 002

Problem has been graded.

Find the node voltages  $v_1$ ,  $v_2$  and  $v_3$ . Use nodal analysis.



Given Variables:

R1:2 ohm

R2:1 ohm

R3:1 ohm

R4:2 ohm Vs:5 V

ls : 1 A

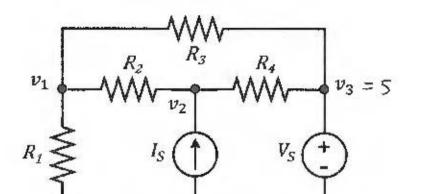
Calculate the following:

v1 (V):

v2 (V):

v3 (V):

Find the node voltages  $v_1$ ,  $v_2$  and  $v_3$ . Use nodal analysis.



$$\alpha^3 = \Lambda^2 \Rightarrow \alpha^3 = 2\Lambda$$

$$R1 = 2 \Omega$$

$$R2 = 1 \Omega$$

$$R3 = 1 \Omega$$

$$R4 = 2 \Omega$$

$$Vs = 5 V$$

$$Is = 1 A$$

$$\otimes$$
 KCLD2:  $\frac{\sqrt{1-\sqrt{1}}}{1} + \frac{\sqrt{1-5}}{2} - 1 = 0 \Rightarrow -2\sqrt{1+3\sqrt{1}} = 7$