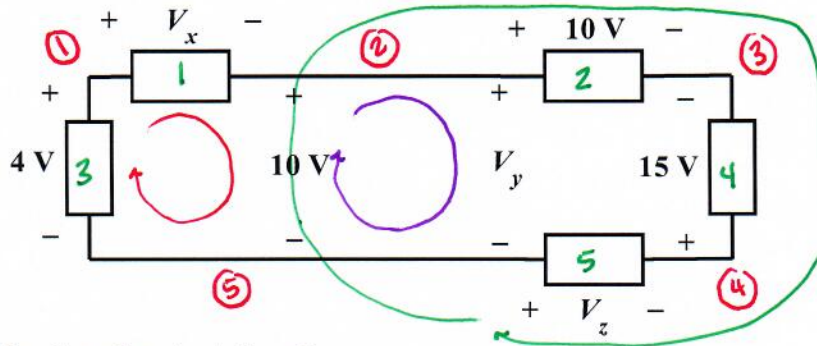


EE/EET 2240
Homework Problem 003

For the circuit shown below:



a. How many nodes does the circuit have?

5

b. How many branches (components) make up the circuit?

5

c. Determine the value of V_x .

$$V_x + 10 - 4 = 0 \Rightarrow V_x = -6V$$

d. Determine the value of V_y .

$$-10 + V_y = 0 \Rightarrow V_y = 10V$$

e. Determine the value of V_z .

$$-10 + 10 - 15 - V_z = 0 \Rightarrow V_z = -15V$$