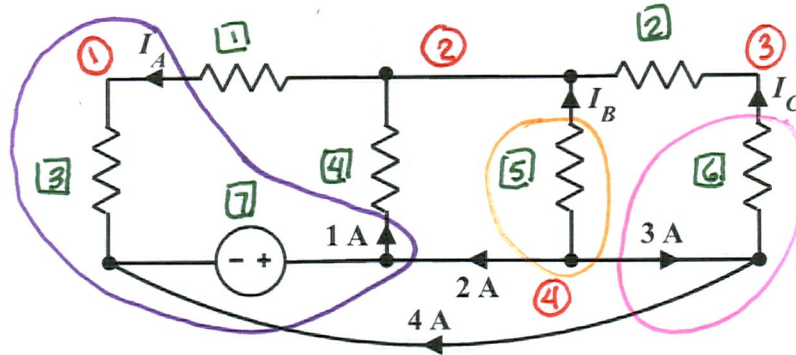


EE/EET 2240
Homework Problem #02

For the circuit shown below:



a. How many nodes does the circuit have?

4

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

7

c. Determine the value of I_A .

$$I_A - 1A + 2A + 4A = 0$$

$$\Rightarrow I_A = -5A$$

d. Determine the value of I_B .

$$I_B + 2A + 3A = 0$$

$$\Rightarrow I_B = -5A$$

e. Determine the value of I_C .

$$I_C - 3A + 4A = 0$$

$$\Rightarrow I_C = -1A$$