ED 2240
Homework Problem \#001

For the circuit shown below:

a. How many nodes does the circuit have?

$$
4
$$

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

$$
6
$$

c. Determine the value of $I_{1}$.

$$
\Sigma_{1}+2 A=0 \Rightarrow \Sigma_{1}=-2 A
$$

d. Determine the value of $I_{2}$.

$$
I_{2}+5 A-3 A=0 \Rightarrow I_{2}=-2 A
$$

e. Determine the value of $I_{3}$.

$$
I_{3}+3 A-2 A=0 \Rightarrow \Sigma_{3}=-1 A
$$

