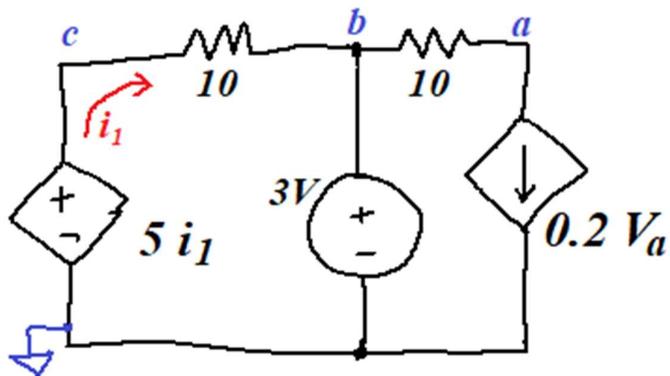


## Mesh Analysis



Answer the following questions:

Q1. Do mesh analysis by writing the mesh (c-b-0) equation. Arrange terms in order:  $i_1$  term and then  $i_2$  term on the left and a constant on the right. The  $i_1$  and  $i_2$  are the mesh currents in the clockwise direction from left to right mesh, respectively. Manipulate and simplify the equation such that (1) all variables are mesh currents, (2) the equation is written as a sum of products and (3)  $i_1$  term is positive.

Q2. Solve for  $i_1$ .

Q3. Solve for  $V_a$ .

Write your answers in the following format.

Q2.1:  $0.0 i_1 + 0.0 i_2 = 0.0$

Q2.2.  $i_1 = 0.0 \text{ A}$

Q2.3.  $V_a = 0.0 \text{ V}$