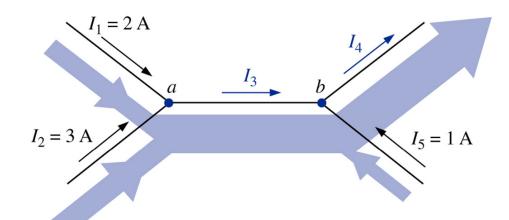


## Electrical Engineering Technology

## **Breakout #1**

- Find
  - □ I3 and I4



$$I_4 = I_3 + I_5$$
$$= 6 A$$

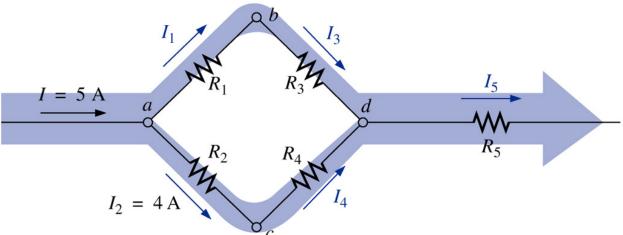
$$I_3 = I_1 + I_2$$
$$= 5 A$$



### Electrical Engineering Technology

## Breakout #2

- Find
  - □ **I**1, **I**3, **I**4, **I**5



$$KCL: I = I_1 + I_2$$

$$\therefore I_1 = I - I_2 = 1 A$$

$$I_3 = I_1 = 1A$$

$$I_4 = I_2 = 4 A$$

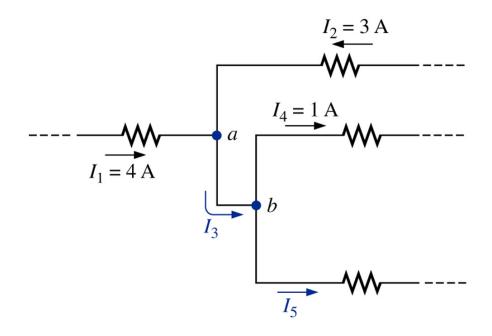
$$I_5 = I_3 + I_4 = 5A$$



# Electrical Engineering Technology

## Breakout #3

- Find
  - □ I3 and I5



KCL @ 
$$b: I_3 = I_4 + I_5$$
  
 $\therefore I_5 = I_3 - I_4 = 6 A$ 

$$I_3 = I_1 + I_2 = 7 A$$





## **Breakout #4**

#### Find

□ I3, I4, I6, I7 (Direction and magnitude)

