In the circuit shown below:

a) Find the current in resistor R
b) Find the resistance R
c) Find the unknown emf $\varepsilon$
d) If the circuit is broken in the point x, what is the current in resistor R?
In the circuit shown below:

a) Find the emfs of $\varepsilon_1$ and $\varepsilon_2$,

b) Find the potential difference of point $b$ relative to point $a$. 

In the circuit shown below:

- $1.00 \, \Omega$ and $20.0 \, V$
- $6.00 \, \Omega$
- $4.00 \, \Omega$
- $1.00 \, \Omega$
- $1.00 \, \Omega$
- $2.00 \, \Omega$
- $1.00 \, \Omega$
- $2.00 \, A$
- $2.00 \, A$

Diagram of the circuit with the given resistances and currents.
In the circuit shown below:

a) Find the current in the $3.00 \, \Omega$ resistor,

b) Find the unknown emfs of $\varepsilon_1$ and $\varepsilon_2$.

c) Find the resistance $R$.

Note that three currents are given.
In the circuit shown below:

a) Find the current in each branch,

b) Find the potential difference $V_{ab}$ of point $a$ relative to point $b$. 

![Circuit Diagram](image-url)
In the circuit shown below,

a) Find the current in each branch,

b) Find the potential difference $V_{ab}$ of point a relative to point b.
In the circuit shown below,

a) Find the current in each branch,

b) Find the potential difference $V_{ab}$ of point a relative to point b.