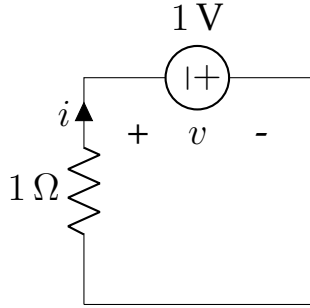


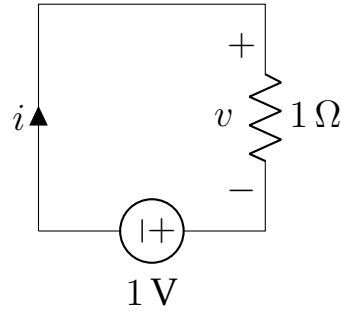
All responses that show sincere effort will receive full credit.

1. Circle the correct variable values below each of the circuits.



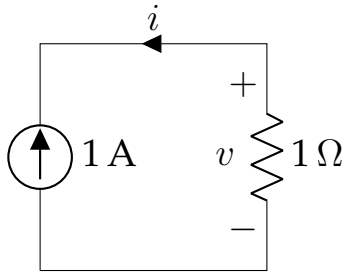
$i =$ +1 A -1 A

$v =$ +1 V -1 V



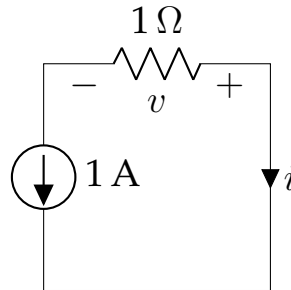
$i =$ +1 A -1 A

$v =$ +1 V -1 V



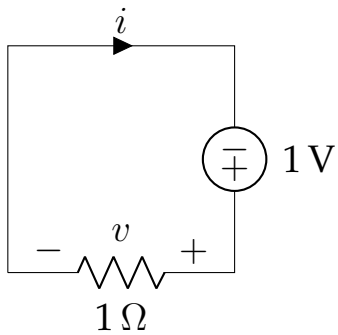
$i =$ +1 A -1 A

$v =$ +1 V -1 V



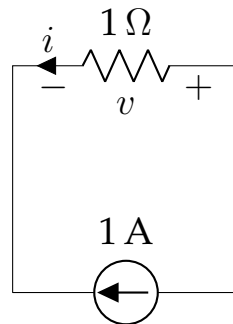
$i =$ +1 A -1 A

$v =$ +1 V -1 V



$i =$ +1 A -1 A

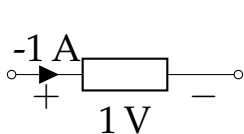
$v =$ +1 V -1 V



$i =$ +1 A -1 A

$v =$ +1 V -1 V

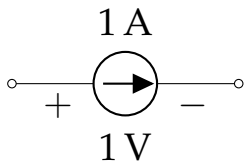
2. For each element below, assume it is connected to an external circuit network. Is power flowing *from the external circuit* to the element, or *from the element* to the external circuit, or is it impossible to say with the given information? Circle one option for each element:



from ext. circuit

to ext. circuit

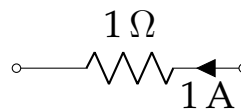
can't say



from ext. circuit

to ext. circuit

can't say

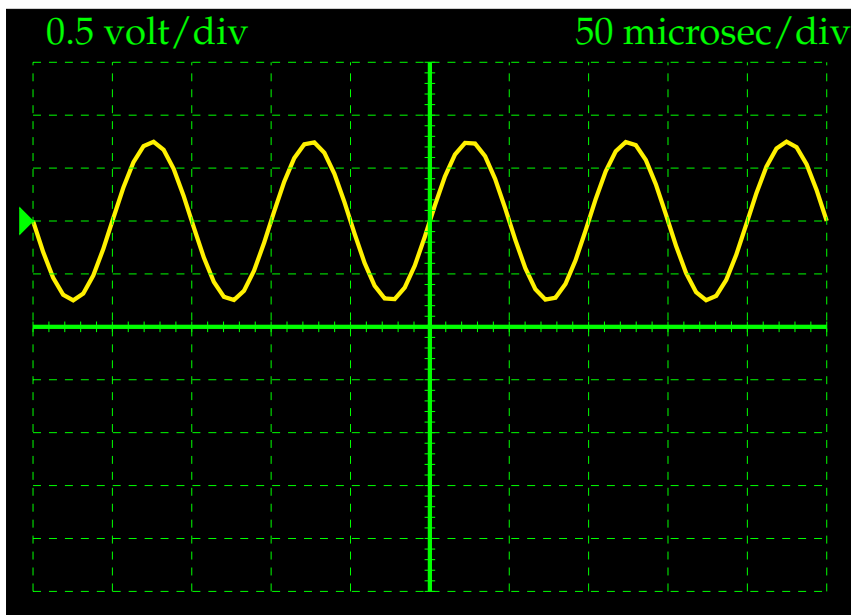


from ext. circuit

to ext. circuit

can't say

3. Provide the requested information for the voltage-time oscilloscope trace shown below:



What is the period of the signal, with units?

What is the frequency of the signal, with units?

What is V_{pp} the peak-to-peak voltage of the signal, with units?

What is the offset of the signal, with units?