Subject: Welcome
Posted by sburkett on Sat, 20 Aug 2016 21:12:55 GMT
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Does anyone have questions?

Subject: Re: Welcome
Posted by eccleveland1 on Mon, 22 Aug 2016 18:40:12 GMT
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Is the answer to #4 a negative answer since the current is going the negative direction?
The answer for #10 is 25 since the voltage is 5 while the current is also 5 right?
Then answer for #11 could be 2.5 since I divided the voltage(10) by its resistor(4).
For #13, R1+R2+R3 gives me the answer right?
Is the current for #14 is 10/7?
How is #17, #21-25 solved?

Subject: Re: Welcome
Posted by sburkett on Mon, 22 Aug 2016 19:01:55 GMT
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1) Yes, the current is negative in #4
2) For #10, the voltage across the 1 ohm resistor (R2) is 5V but you were asked for the power dissipated by R1. You don't know the value of R1 but you don't need it to figure out the power. The answer is not 25 Watts.
3) In #11, there are 2 resistors the 10 mA source is supplying. Find the equivalent resistance (the 2 Resistors are in parallel) and then find the voltage across all parallel branches. Once you know that, you can find the current flowing through the 4 kohm resistor.
4) For #13, Yes they are in series so just add them up.
5) For #14, 10/7 is the current coming out of the battery but you are asked for V3 (which is the current*3 ohms). 10/7 is a current measured in Amps.
6) For these kind of problems, start at the right hand side where the 2 end resistors are in series. For example, in #17 the 2k and 2k are in series for an Req of 4k. Then the 4k is in parallel with 4k for an Req of 2k. Continue to do this until you have only one resistance, that is Rab. Try working 21-25 by reducing circuit to one source and one equivalent resistance and then see if you can find either current or voltage to help you find the parameter you were asked for.

Subject: Re: Welcome
Posted by acole2 on Tue, 23 Aug 2016 01:13:37 GMT
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I'm struggling with #24...I've broken it down into 1 circuit to find the current and I'm getting a current of 6/14. That doesn't seem right, as none of the answer options contain decimals or fractions but I'm not sure where I went wrong
Subject: Re: Welcome
Posted by sburkett on Tue, 23 Aug 2016 14:22:17 GMT

For #24, what is the equivalent resistance in your reduced circuit? The 2 4 ohm resistors are in parallel and that combination is in series with 10 ohms.