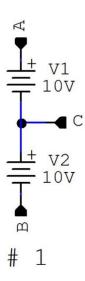
Series Voltage Sources

Series sources add voltage, just like series resistances would add. Assume equal current rating sources:

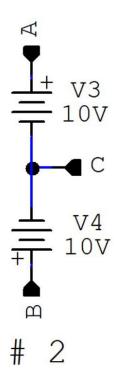


What is the A to B voltage?
Which terminal is most positive to all other terminals?
From C, which is less positive?
From C, which is more negative?
Is this series aiding or series opposing (bucking)?
Does this increase the maximum current rating?
Does this increase the power capacity?

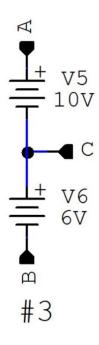
Now assume current capacity of V2 is 2 amperes and V1 is one ampere. Series source currents are the same in each device, just like they would be with resistors.

What is the A to B voltage?	
What is the total power capacity?	
With one safe load from B to A, and equal battery resistances, which battery runs hotter?	

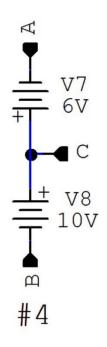
Voltages from series sources add. Assume equal current rating sources:



What is the A to B voltage?
Which terminal is most negative to all other terminals?
From C, which is less positive?
From C, which terminal is more positive?
Is this series aiding or series opposing (bucking)?
Does this increase the maximum current rating?
Does this increase the power capacity?
Which two terminals can we safely connect together?
What changes if we connect any safe terminals?



What is the A to B voltage?
Which terminal is most negative to all other terminals?
From C, which is less positive?
From C, which terminal is more positive?
Is this series aiding or series opposing (bucking)?
Does this increase the maximum current rating?
Does this increase the power capacity?
Which two terminals can we safely connect together?
What changes if we connect any safe terminals?
Now does this increase the power capacity?



What is the A to B voltage?
Which terminal is most negative to all other terminals?
From C, which is less positive?
From C, which terminal is more positive?
Is this series aiding or series opposing (bucking)?
Does this increase the maximum current rating?
Does this increase the power capacity?
Which two terminals can we safely connect together?
What changes if we connect any safe terminals?
Now does this increase the power capacity?