

Series Circuit -- Prove $V_T = V_1 + V_2 + \dots$

1. Record all voltages using 3 significant digits¹
2. Be sure you are using the optimum range for each voltage measurement (if applicable)

VT	R ₁	R ₂	Measured V ₁	Measured V ₂	Does V _T = V ₁ + V ₂ ? (Yes/No)
10 V	1 kΩ	1 kΩ			
5 V	1 kΩ	1 kΩ			
2 V	1 kΩ	1 kΩ			
10 V	1 kΩ	2.2 kΩ			
5 V	1 kΩ	2.2 kΩ			
2 V	1 kΩ	2.2 kΩ			
10 V	1 kΩ	4.7 kΩ			
5 V	1 kΩ	4.7 kΩ			
2 V	1 kΩ	4.7 kΩ			
10 V	1 kΩ	10 kΩ			
5 V	1 kΩ	10 kΩ			
2 V	1 kΩ	10 kΩ			

¹ See <https://goo.gl/IArxkW> for an explanation of significant figures (digits)