

	Et	E1	E2	E3	E4		It	I1	I2	I3	I4
1		2	4	6	8	26		2			
2		6	4	2	6	27			4		
3	18	7	1	2		28				3.2	
4	20	16	1		2	29			7		
5	8	2		1	3	30				6	
6	10		3	1	2	31			4		
7		7	9	11	13	32		8			
8		6	8	10	12	33			14.4		
9	27	2	3	4		34				13.7	
10	22	6	2	6		35		41			
11		20	30	40	40	36			.22		
12		10	20	30	40	37		3.2			
13		5	15	25	35	38			9.7		
14		1	3	5	7	39				41.4	
15	120	40	10	40		40		19.7			
16	120	30	30	30		41			21.2		
17	208	120	6	8		42			4		
18	240	60	60	60		43			4.1		
19	480	100		100	100	44			7		
20	480	100	100	100		45			8		
21	32	1.6	14.2	16		46				6	
22	40	3	9	12		47			3.2		
23	40	3	9		18	48				60	
24	40	1	1	1		49			25		
25	40		1	1	1	50				20	

Voltage in series is additive. The whole equals the sum of its parts.

$$E_t = E_1 + E_2 + E_3 + E_4 \quad \text{also} \quad E_1 = E_t - E_2 - E_3 - E_4$$

$$E_2 = E_t - E_1 - E_3 - E_4$$

$$E_3 = E_t - E_1 - E_2 - E_4$$

$$E_4 = E_t - E_1 - E_2 - E_3$$

Current in series is equal.