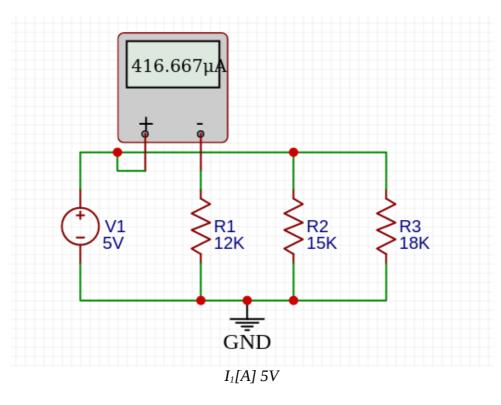
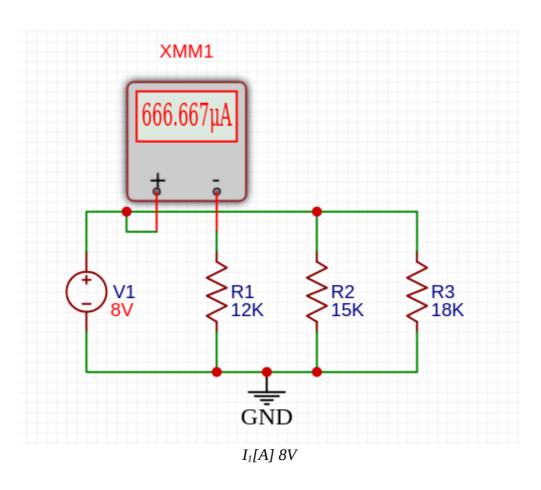
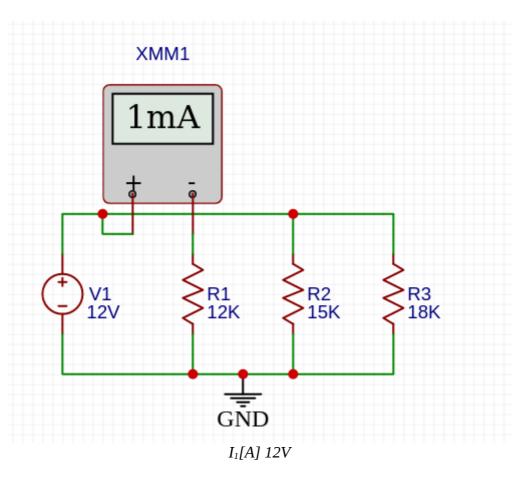
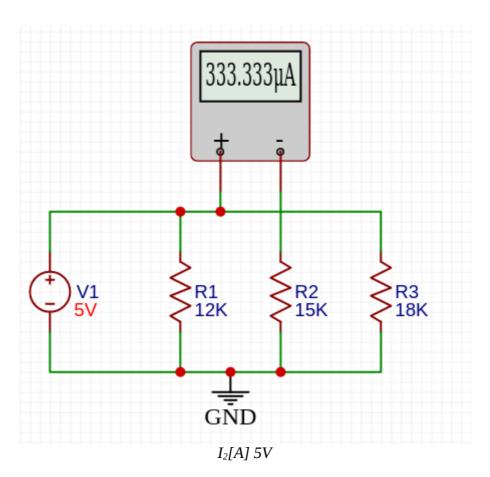
Section 1

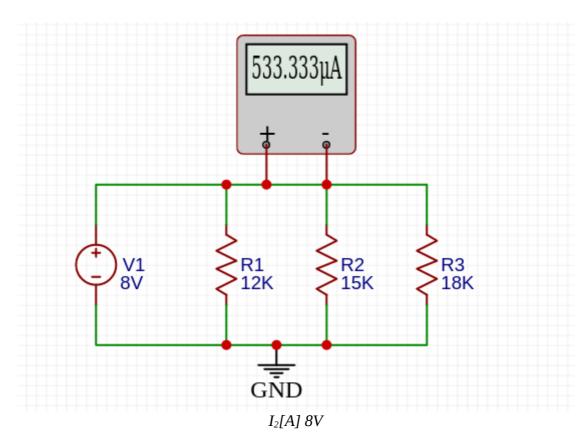
Table 1

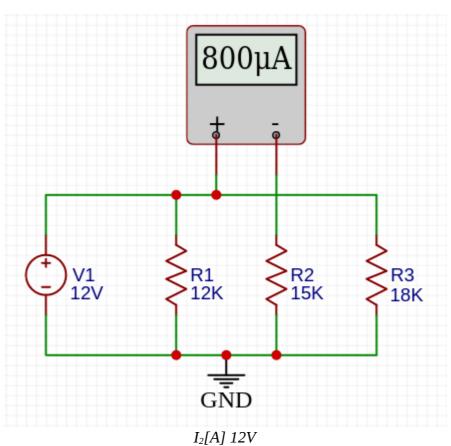


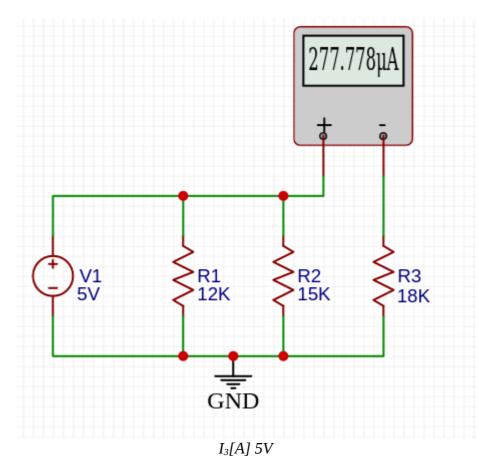


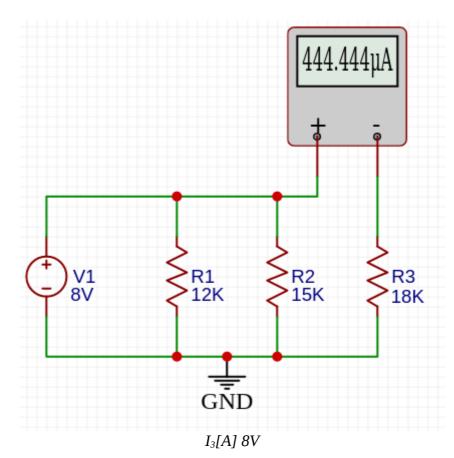


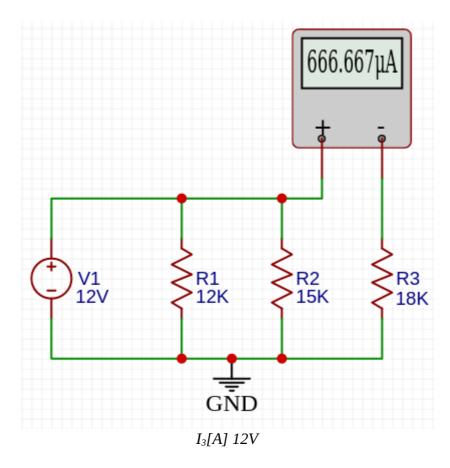


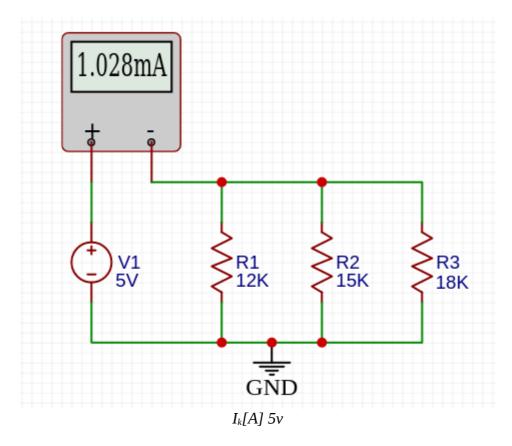


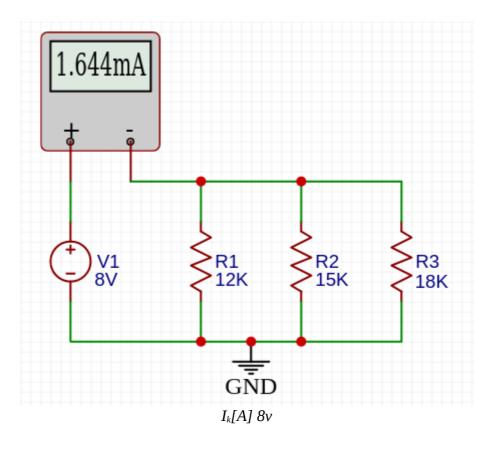


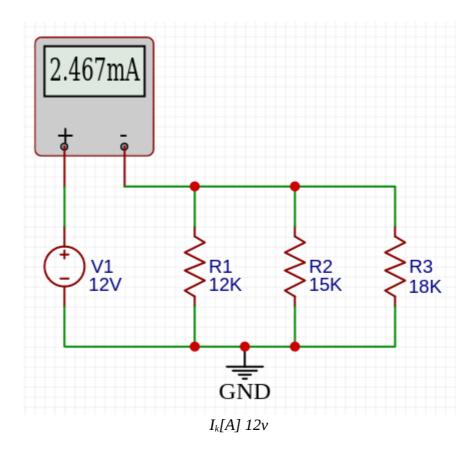


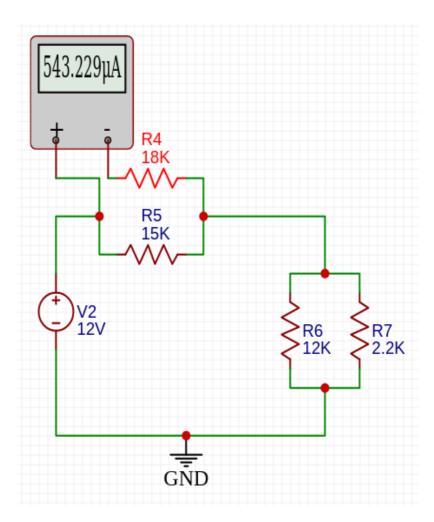




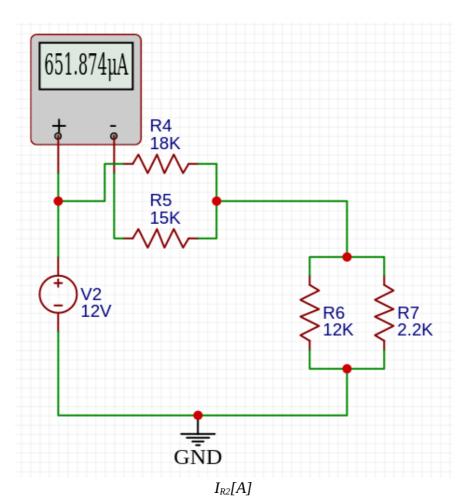


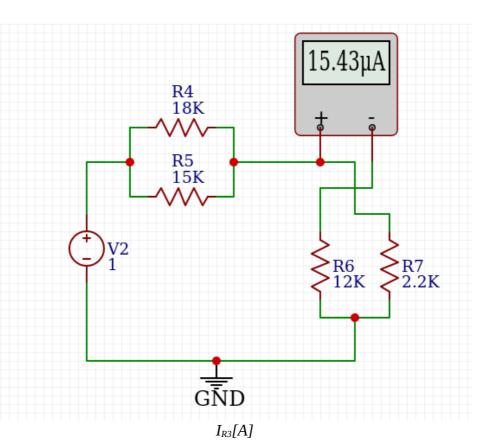


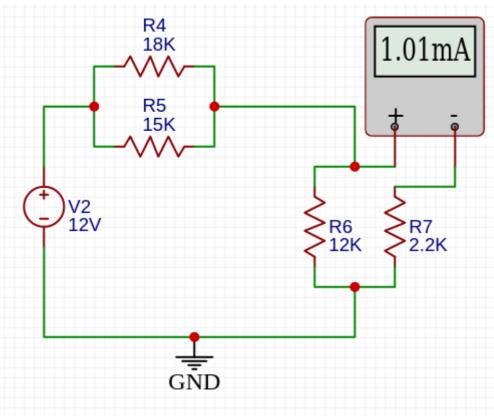




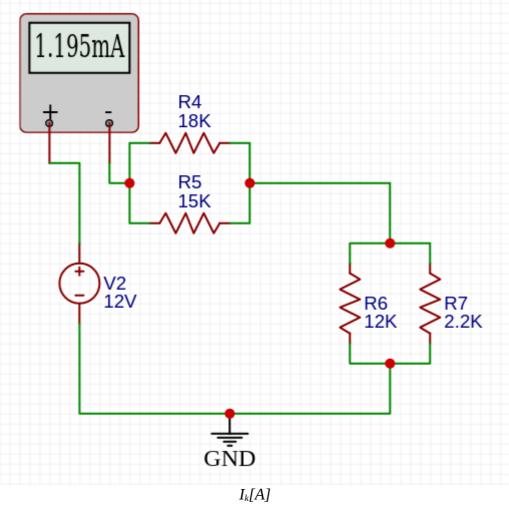
 $I_{R1}[A]$





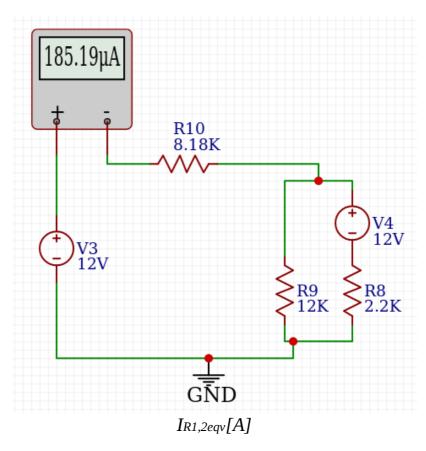


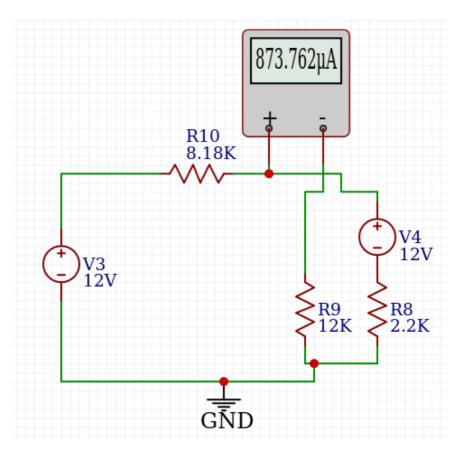
 $I_{R4}[A]$



Section 2

Table 3 (2.1)





Ir3[A]

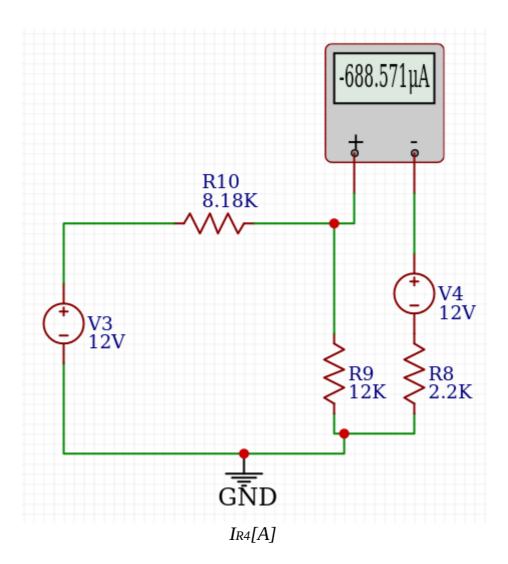
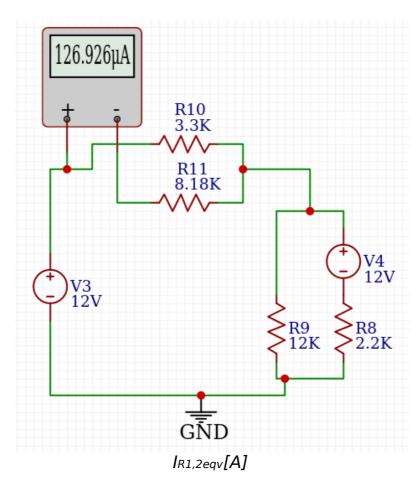
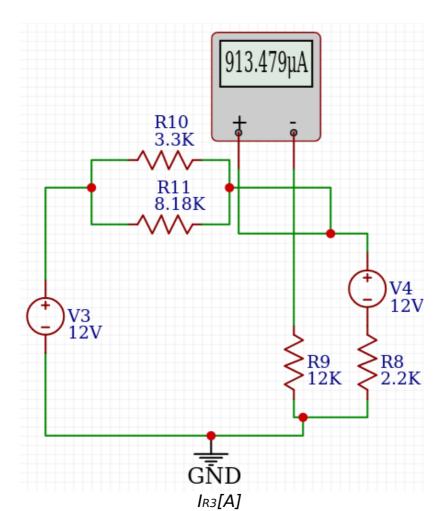
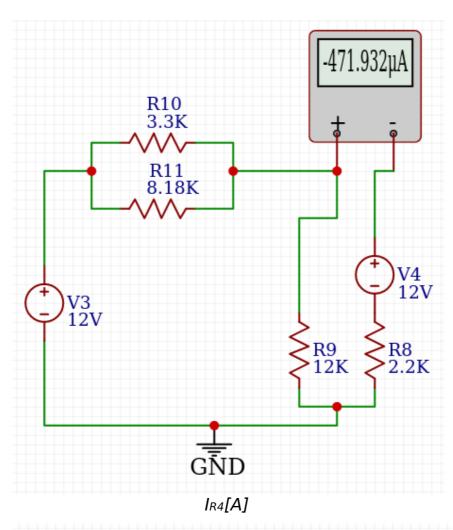
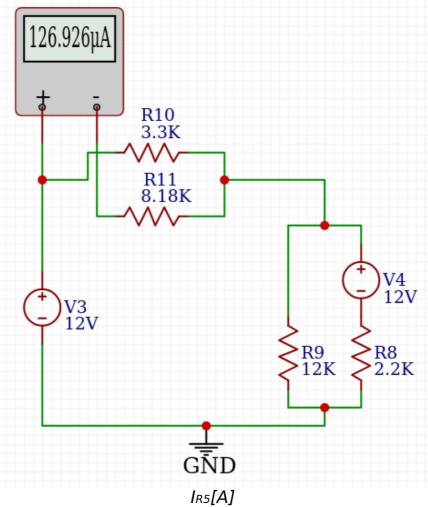


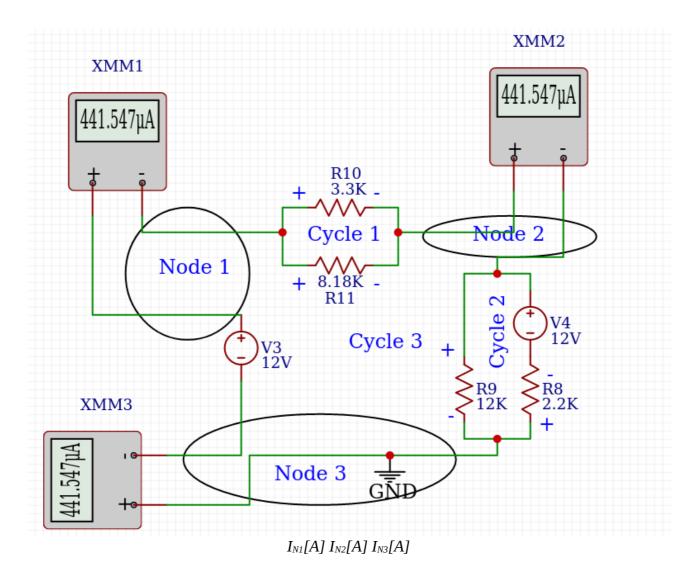
Table 4 (2.2)

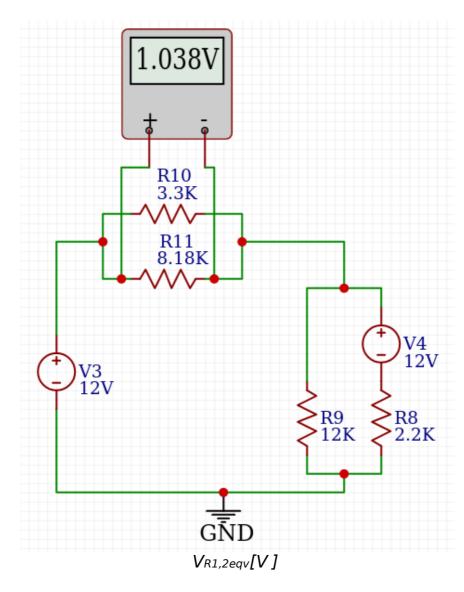


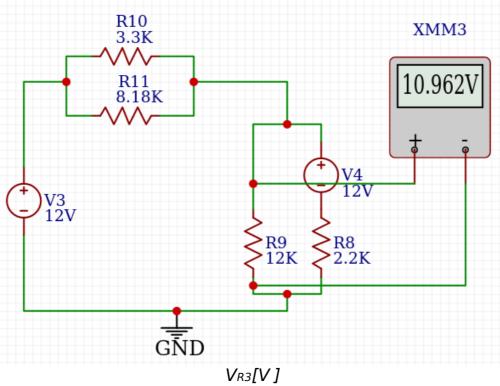


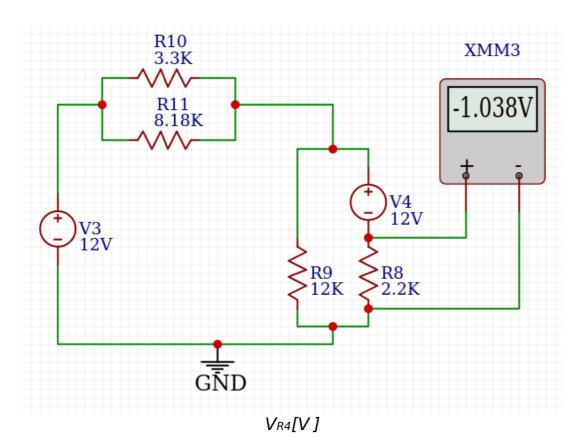


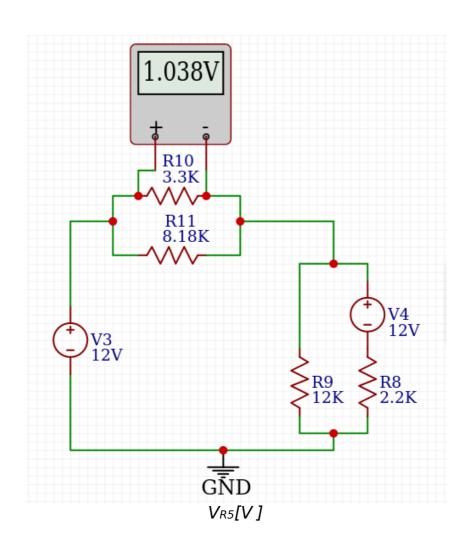


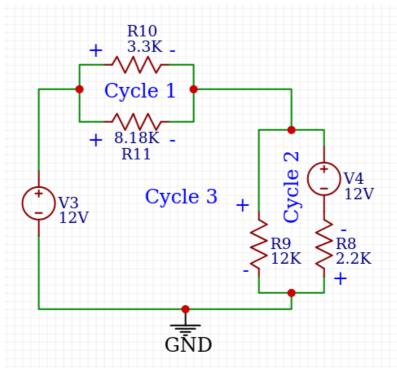












Last Built Circuit

Circuits

Figure 3

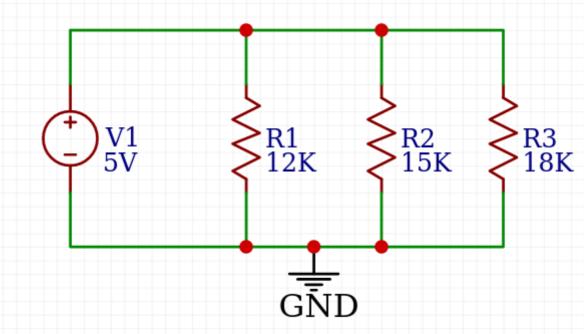
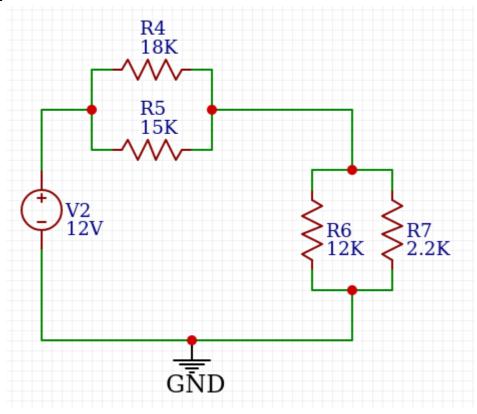
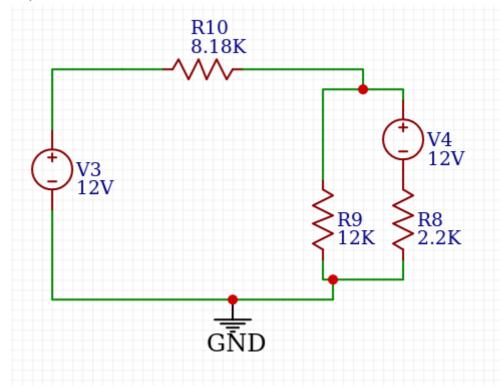


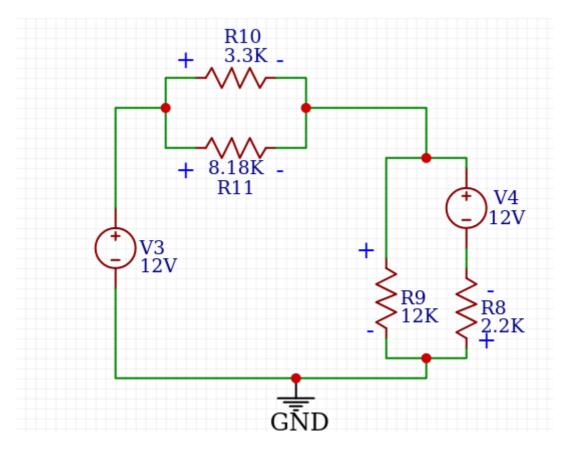
Figure 4



Section 2.1



Section 2.2



Tables

V_{k1}	$I_1[A]$	$I_2[A]$	$I_3[A]$	$I_1 + I_2 + I_3[A]$	$I_k[A]$ (Mea-sured)	$I_k[A]$ (Calculated)	Relative Error [%]
5V	416.67	333.3	277.778	1027,748		1.028mA	
	μΑ	μΑ	μΑ	μA			
8V	666.67	533.3	444.4	1644,37 μΑ		1.644mA	
	μΑ	μΑ	μΑ				
12V	1mA	800µA	666.67	2466,67 μΑ		2.467mA	
			μΑ				
	Table 1						

$I_{R1}[A]$	$I_{R2}[A]$	I_{R1} +	$I_{R3}[A]$	$I_{R4}[A]$	I_{R3} +	$I_k[A]$
		$I_{R2}[A]$			$I_{R4}[A]$	
543.229	651.874	1195,10	15.43	1.01mA	1025,43 μΑ	1.195mA
μΑ μΑ μΑ μΑ						
Table 2						

$I_{C1}[A]$	$I_{C2}[A]$	^I R1,2eqv [A]	$I_{R3}[A]$	$I_{R4}[A]$	
*	*	185.168 μΑ	873.762	-688.571	
			μA	μΑ	
Table 3					

^{*} What is cycle current ? I think it's a mistake.

$I_{N1}[A]$	$I_{N2}[A]$	$I_{N3}[A]$	^I R1,2eqv [A]	$I_{R3}[A]$	$I_{R4}[A]$	$I_{R5}[A]$
441.547	441.547	441.547	126.926 μΑ	913.479 μΑ	-471.932	126.926 μΑ
μA	μA	μA				
Table 4						

Node	1		441uA = 314uA + 126uA
Node	2		441uA = - 471uA + 913uA
Node	3		-471uA = -471uA
Node	4		-471uA +913uA = 441uA
		Table	5

$V_{R1,2eqv}[V]$	$V_{R3}[V]$	$V_{R4}[V]$	$V_{R5}[V]$		
1.038 V	10.962 V	-1.038 V	1.038 V		
Table 6					

Cycle 1	+ 1.038 - 1.038 = 0			
Cycle 2	- 10.962 + 12 -1.038 = 0			
Cycle 3	- 12 + 1.038 + 10.962 = 0			
Table 7				

Mehmet Hüseyin YILDIZ 200104004095 Cse 231 Lab 02