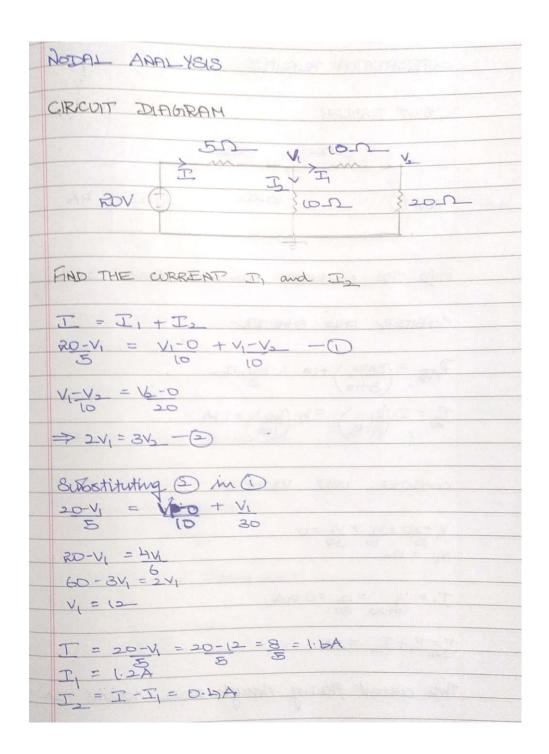
EXPERRIMENT-2

AIM:

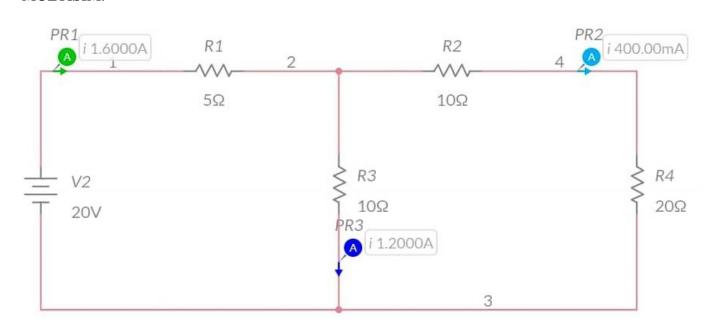
To find the current using Mesh Analysis, Nodal Analysis, Superposition Theorem.

PROCEDURE:

YESH ANA	LYSIS
CIRCUIT D	VIAGRAM
	50 100
20V	9 300
	CURRENT FLOWING THROUGH THE CIRCUIT
MESH 1 $RO = 5l_1 + 1$ $10 = 15l_1 + 1$ $14 = 3l_1 + 1$	
MESH 2	3)+10(3-9)=0 31=0
	5 Eq. 2 In Eq. (1)

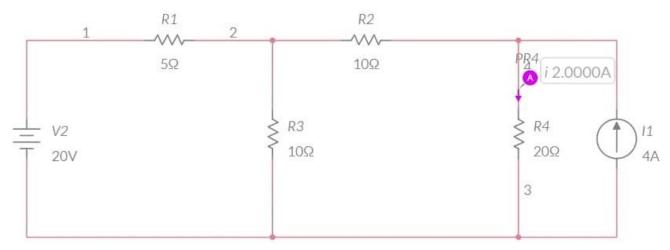


MULTISIM:



CIDAL DISTA				
CIRCUIT DIAGRAM	1			
	5-12			
	511	4 10-1	7	
A				
20V D		30-2	500	- 1 4A
FIND THE CURREN	T FLOWING	THRNYOH 200		
CONSIDER ONLY	VOLTMETTO			
V ₁ -20 + V ₁ + V ₁ 5 10 30	= 0			-
101 = 120				
V, = 12V				
0 =	TUDNKU :	20		
CURRENT FLOWING	1 INKUUNT -			
CURRENT FLOWING				
CURRENT FLOWING $ L_{10+20} = V_{1} = 0.4 $				
$T_{l} = \frac{V_{l}}{10+20} = 0.4$	4	*		
$T_{l} = V_{l} = 0.4$ $10+20$ Consider only	AMMETER	A		
$T_{l} = V_{l} = 0.4$ $10+20$ Consider only	AMMETER			
$T_{l} = V_{l} = 0.4$ $10+20$ Consider only	AMMETER			
$T_{l} = V_{l} = 0.4$ $10+20$ $Consider only$ $R_{AB} = (5xio) + 10$ $5+10$	AMMETER.			
$T_{l} = V_{l} = 0.4$	AMMETER - ho .r. 3 THROUGH 2			
$T_{l} = V_{l} = 0.4$	AMMETER - ho .r. 3 THROUGH 2			
$T_{l} = V_{l} = 0.4$	AMMETER - ho .r. 3 THROUGH 2			
$T_{l} = V_{l} = 0.4$ $10+20$ $Consider only$ $R_{AB} = (5xio) + 10$ $5+10$	AMMETER - ho .r. 3 THROUGH 2			

MULTISIM:



CONCLUSION: The value of current we got from MULTISIM is same as the value what we got theoretically.

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