

Lab 01 Report
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EE 316

Circuits Review

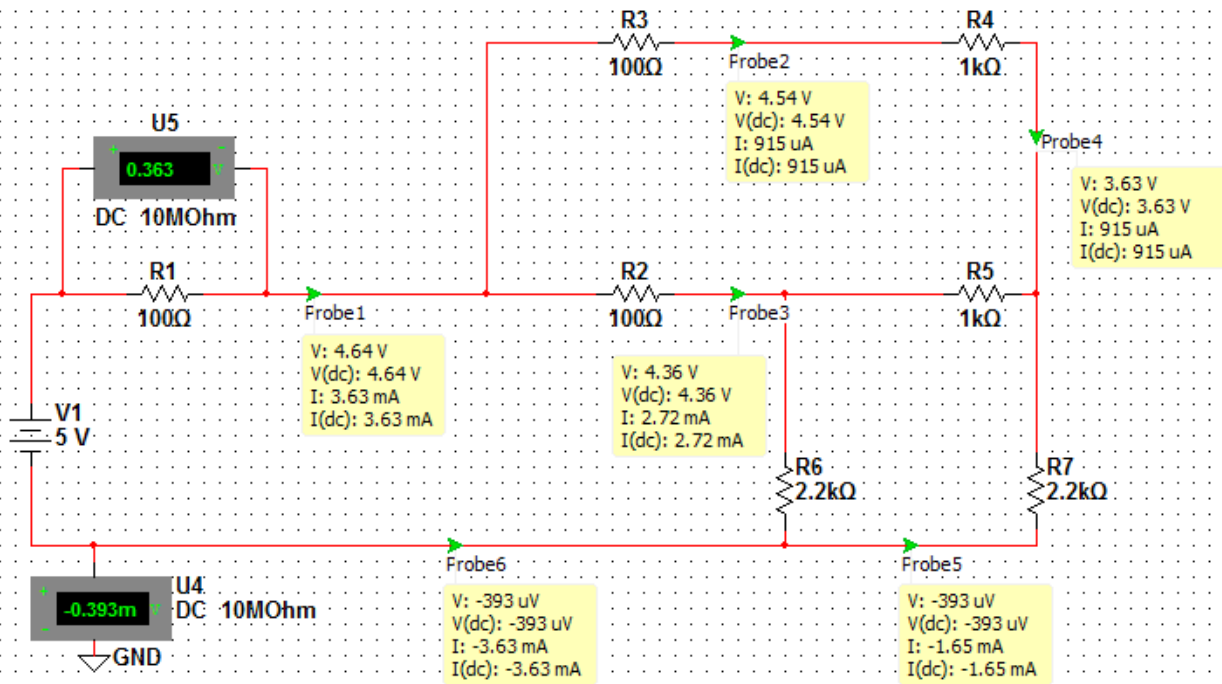
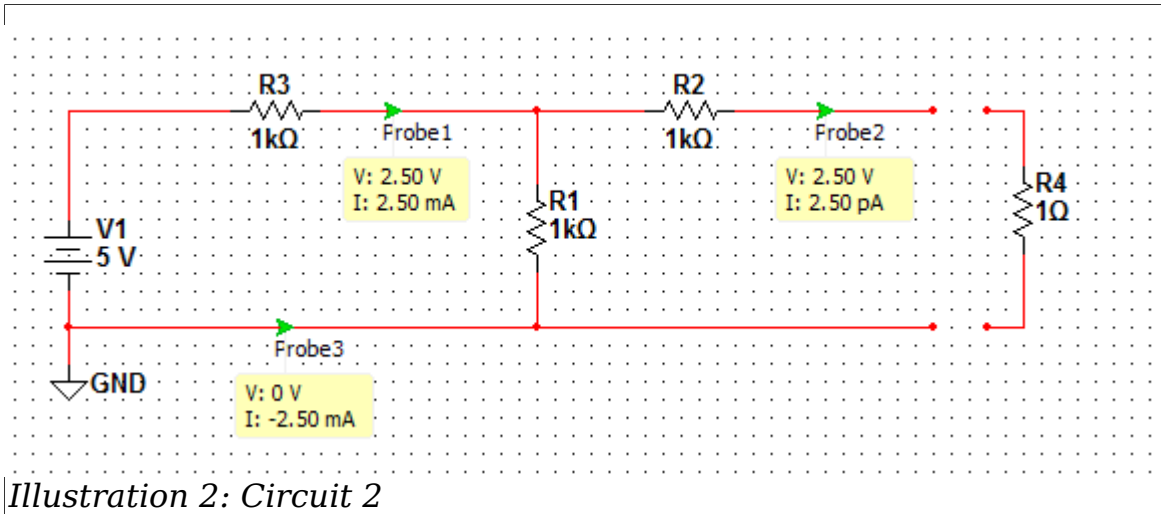


Illustration 1: Circuit 1

Branch Voltages	Branch Currents	Node Voltages	Loop Currents
$V_{R1} = 0.36V$	$I_{R1} = 3.63mA$	$V_1 = 4.64V$	$I_1 = 3.63mA$
$V_{R2} = 0.27V$	$I_{R2} = 2.72mA$	$V_2 = 4.54V$	$I_2 = 1.65mA$
$V_{R3} = 0.09V$	$I_{R3} = 0.92mA$	$V_3 = 4.36V$	$I_3 = 0.92mA$
$V_{R4} = 0.92V$	$I_{R4} = 0.92mA$	$V_4 = 3.63V$	
$V_{R5} = 0.74V$	$I_{R5} = 735uA$		
$V_{R6} = 7.60V$	$I_{R6} = 3.46mA$		
$V_{R7} = 3.67V$	$I_{R7} = 1.65mA$		



R_L (Ohms)	V_L (V)	I_L (mA)
10	0.454	45.4
30	1.155	38.5
70	2.058	29.4
100	2.541	25.3
150	3.021	20.2
200	3.331	16.7
300	3.747	12.4
500	4.164	8.3
1000	4.523	4.5