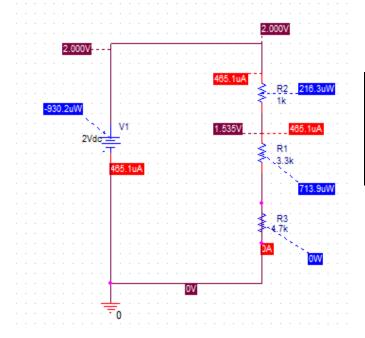
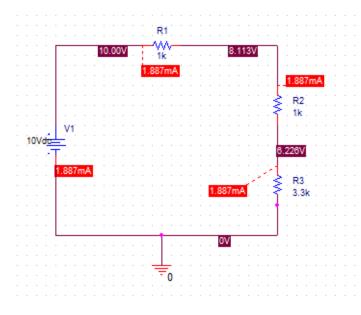
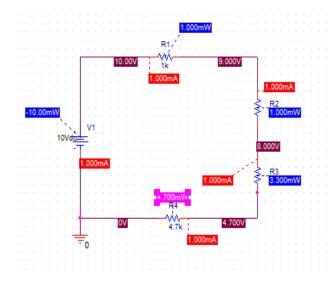


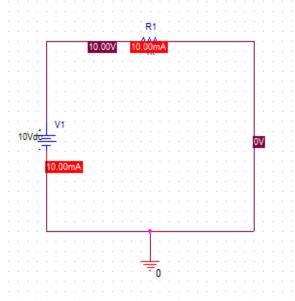
3.3k ohms	I	(P- spice)	IR	IR (P- spice	P	P (p- spice)
2	0.61	0.606	2.01	2.00	1.22	1.212
4	1.25	1.23	4.13	4.233	5.16	5.17
6	1.85	1.859	6.1	6.115	11.29	11.3
8	2.97	2.97	9.8	9.91	29.1	30
10	3.11	3.170	10.10	10.1	31.9	31.88

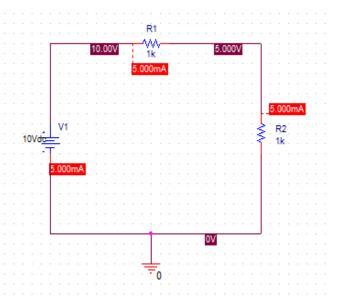


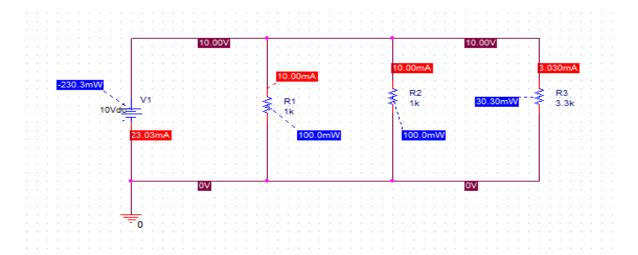
Vs	V _{R1}	V _{R1} (P- spice)	V _{R2}	V _{R2} (P- spice)	V _{R3}	V _{R3} (P- spice)
4.98	0.55	0.465	1.81	1.791	2.62	2.627

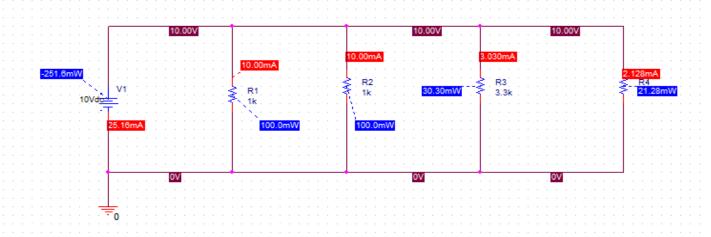


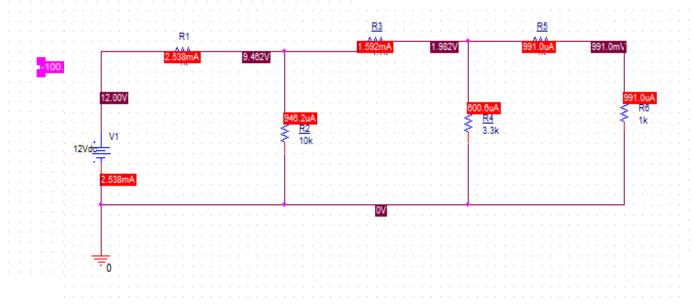




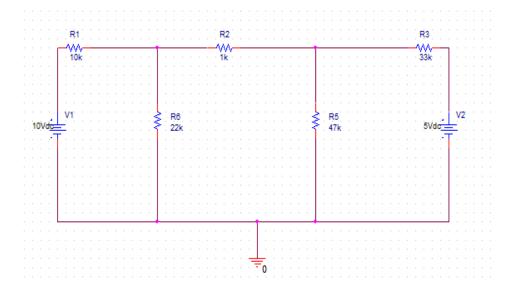




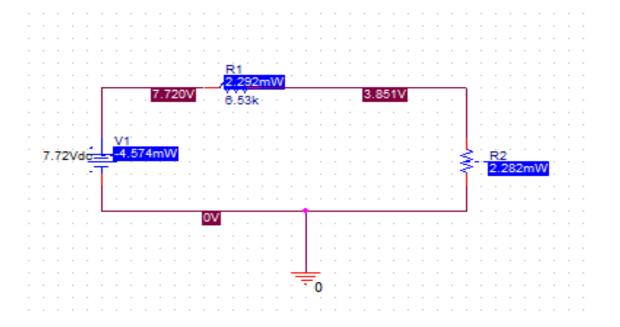




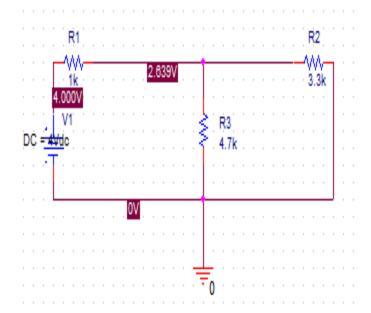
Component	Voltage	Voltage (pspice Simulation)	Current	Current (Pspice Simulation)
E	12.07	12	2.55	2.538
R ₁	2.53	2.538	2.55	2.538
R ₂	9.50	9.462	0.95	0.946
R ₃	7.49	7.48	1.593	1.592
R ₄	2.010	1.982	0.609	0.6
R ₅	1.007	0.991	1.003	0.981
R ₆	1.003	0.991	1.003	0.981



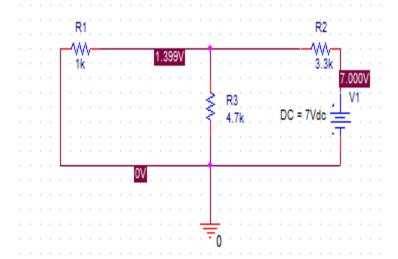
	V _{oc} (V)	I _{sc} (mA)	R _{тн} (K ohms)
Theory	7.71	1.15	6.71
Experiment	7.72	1.153	6.53
P-spice Simulation	7.693	1.157	-



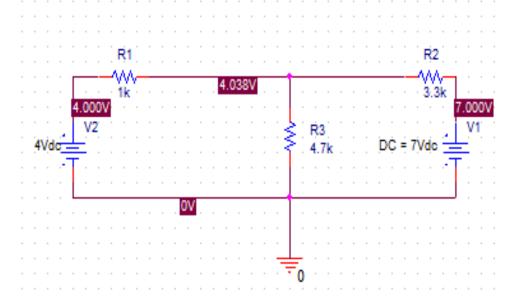
RL	V _L (Experimental Values)	V _L (Pspice Simulation)	P _L (Experimental Values)	P _L (Pspice Simulation)
1	0.96	1.001	921.6	1001.3
2	1.77	1.79	1566	1571
4	2.93	2.931	2146	2146.9
5	3.33	3.333	2217	2216.3
6	3.65	3.647	2220.7	2221
6.5	3.82	3.851	2280.9	2282
7	3.96	3.961	2240.2	2274
8	4.20	4.201	2205	2231
9	4.43	4.429	2180.4	2189
10	4.62	4.615	2134.44	2153



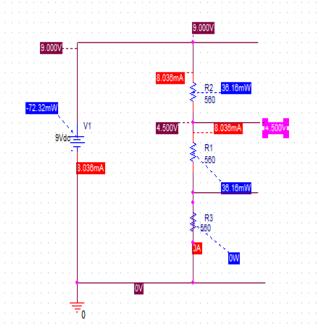
V1	V3'	Theoretical	Pspice
		Value	Simulation
		For V3'	Value for V3'
4	2.64	2.64	2.639
5	3.26	3.3	3.32
-6	-	-3.96	-3.957
	3.97		

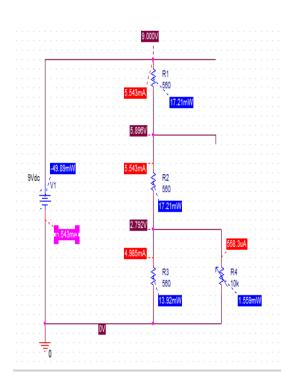


V2	V3"	Theoretical Value for V3"	Pspice Simulation for V3"
7	1.4	1.4	1.399
8	1.61	1.6	1.619
-9	- 1.81	-1.8	-1.81

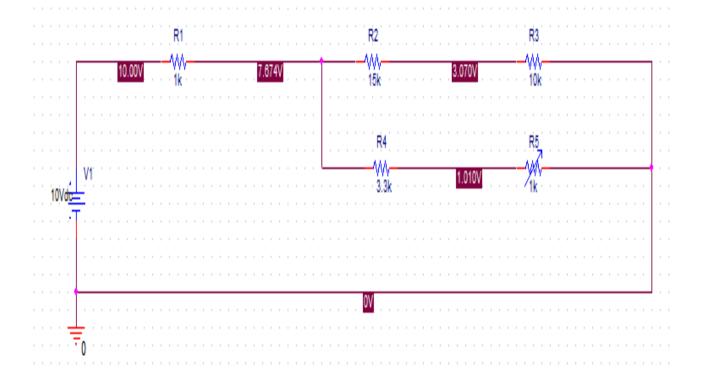


V1	V2	V3	Theoretical Value, V3	Pspice Simulation V3
4	7	4.04	4.04	4.038
4	8	4.23	4.24	4.22
4	-9	0.8	0.84	0.812
5	7	4.68	4.7	4.631
5	8	4.88	4.9	4.915
5	-9	1.43	1.5	1.477
-6	7	-2.57	-2.57	-2.573
-6	8	-2.38	-2.36	-2.374
-6	-9	-5.81	-5.8	-5.83

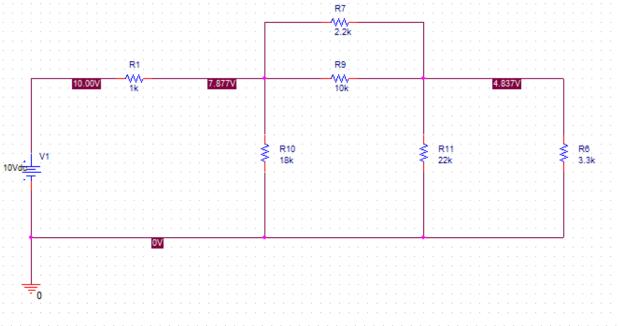


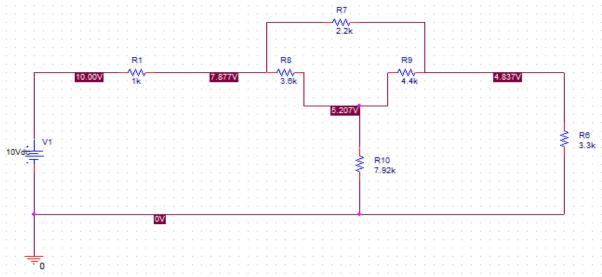


	Circuit 1				
		(R=1k)	(R=4k)	(R=7k)	(R=10k)
RT(k)	1.65	1.45	1.58	1.58	1.62
E	8.92	8.92	8.92	8.92	8.92
I	5.9	6.15	5.69	5.69	5.50
V _{R1} (V)	2.98	3.38	3.10	3.10	3.03
V _{R1} (V)	2.937	3.31	3.1	3.1	3.05
[Pspice]					
V _{R2} (V)	2.97	3.38	3.10	3.10	3.02
V _{R2} (V)	2.97	3.37	3.131	3.131	3.002
[Pspice]					
V _{R3} (V)	2.98	2.17	2.73	2.73	2.87
V _{R3} (V)	2.97	2.171	2.773	2.741	2.88
[Pspice]					
$V_{R4}(V)$	-	2.17	2.73	2.73	2.87
V _{R4} (V)		2.181	2.71	2.71	2.881
[Pspice]					
I _{R1} (mA)	5.40	6.15	5.64	5.64	5.50
I _{R1} (mA)	5.4	6.11	5.611	5.611	5.53
[Pspice]					
I _{R2} (mA)	5.40	6.15	5.64	5.64	5.50
I _{R2} (mA)	5.4	6.153	5.644	5.644	5.52
[Pspice]					
I _{R3} (mA)	5.40	3.95	4.96	4.96	5.218
I _{R3} (mA)	4.41	3.953	4.901	4.901	5.255
[Pspice]					
I _{R4} (mA)	-	2.21	0.684	0.39	0.287
I _{R4} (mA)		2.25	0.59	0.41	0.285
[Pspice]					



R2(K ohm)	V	V (Pspice Simulation)
1	1.28	1.278
2	0.11	0.109
3	-0.74	-0.78
4	-1.36	-1.371
5	-1.85	-1.85
6	-2.24	-2.23
7	-2.53	-2.55
8	-2.83	-2.89
9	-3.04	-3.003
10	-3.23	-3.212
2.1	0	0





	Circuit-1	Circuit-2	Circuit-3	Circuit-4
R _T (K ohms)	0.98	1.96	4.95	9.64
E (V)	10.12	5.05	2.002	1.027
I (mA)	9.92	9.91	9.92	9.9
V _{R1}	9.92	4.94	1.97	1.01
V _{R1} (P-spice)	10	5	1.887	1
V _{R2}	-	4.97	1.97	1.01
V _{R2} (P-spice)	-	5	1.887	1
V _{R3}	-	-	5.97	3.07
V _{R3} (P-spice)	-	-	6.226	3.03
V _{R4}	-	-	-	4.81
V _{R4} (P-spice)	-	-	-	4.7

	Circuit-1	Circuit-2	Circuit-3	Circuit-4
R _T (K ohms)	0.986	0.495	0.429	0.393
E (V)	4.97	4.97	4.97	4.97
V_{drop}	4.97	4.97	4.97	4.97
Is	4.99	9.84	11.64	12.65
I _{R1}	4.99	5.01	5	4.98
I _{R1}	4.99	5.012	5.001	4.976
(P-spice)				
I _{R2}	-	4.98	4.983	4.96
I _{R2}	-	4.99	4.988	4.957
(P-spice)				
I _{R3}	-	-	1.66	1.66
I _{R3}	-	-	1.667	1.667
(P-spice)				
I _{R4}	-	-	-	1.07
I _{R4}	-	-	-	1.061
(P-spice)				