LAb 1

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r_3 = 2.17 Ω Red Yellow

r_1 = 98.5 Ω blue, berg

r_2 = 500 Ω Orange

$r_1 + r_2$ = 598 series

$r_1 + r_2$ = 82.3 Parallel

r_1 = 0.05 Amps

R_2 = 0.01 A

$r_1 + r_2$ = 0.0083 A series

$r_1 + r_2$ = 0.043 A parallel

	Computed	Measure
I_1	0.05	0.05
I_2	0.01	0.01
I_3	0.0083	0.0083
I_4	0.06	0.043

Apply 5 volts to a diode in series

V_0 = .75 volts with R_1

V_0 = .6714 volts with R_1 and R_2

1. AND

A	B	Out
0 v	0 v	.16 V
0 v	5 v	.623 V
5 v	0 v	.791 V
5 v	5 v	4.91 V

2. OR

A	B	Out
0 v	0 v	4.4 V
0 v	5 v	4.36 v
5 v	0 v	4.36 v
5 v	5 v	4.4 V