

General physics lab 202

Student's name:.....

Student's number:.....

Experiment 5 : Series and parallel connection of resistors

Series connection:

$$I_G = \dots\dots\dots$$
$$V_G = \dots\dots\dots$$

R (kΩ)	V ()
1	
5.6	
10	

Theoretical:

$$R_{eq} = R_1 + R_2 + R_3 = \dots\dots\dots$$

Experimental:

$$V_{total} = V_1 + V_2 + V_3 = \dots\dots\dots$$

$$R_{eq} = \frac{V_{total}}{I_G} = \dots\dots\dots$$

Parallel connection:

$$I_G = \dots\dots\dots$$
$$V_G = \dots\dots\dots$$

R (kΩ)	I ()
10	
100	

Theoretical:

$$R_{eq} = \frac{R_1 \times R_2}{R_1 + R_2} = \dots\dots\dots$$

Experimental:

$$I_{total} = I_1 + I_2 = \dots\dots\dots$$

$$R_{eq} = \frac{V_G}{I_{total}} = \dots\dots\dots$$