Answer on Question #73192, Physics / Electric Circuits

Question. What happens to the circuit if a 1.5 volt battery is removed and is replaced by a volt battery.

Given. $U_0 = 1.5 V$; U = 1 V.

Solution.

According to the Ohm's low

$$I = \frac{U}{R}.$$

If R = const then

$$I_0 = \frac{1.5}{R}$$
 and $I = \frac{1}{R}$.

So, if the voltage decreases then the current will decrease.

Answer. The current will decrease.

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