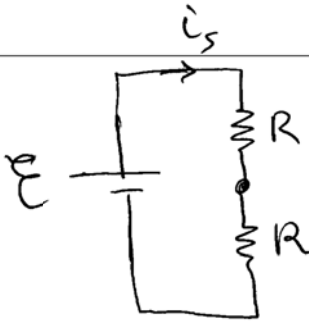
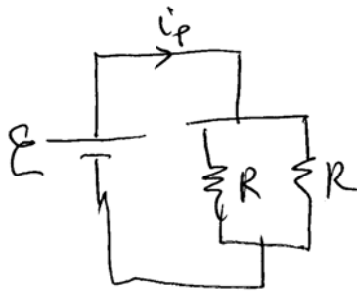


If the terminals of an ideal battery are connected across two identical resistors connected in series, the total power delivered by the battery is 8.0 W. If the same battery is connected to the same two resistors which are now connected in parallel, what is the total power delivered by the battery?



$$i_s = \frac{E}{2R}$$

$$P_s = iV = i_s E = \frac{E^2}{2R} = 8 \text{ W}$$



$$i_p = \frac{E}{\frac{R}{2}} = 2 \frac{E}{R}$$

$$P_p = iV = i_p E = 2 \frac{E^2}{R} = 2 \times 16 = 32 \text{ W}$$

04 Sep	11 Sep	18 Sep	25 Sep	2 Oct	9 Oct	23 Oct	30 Oct	6 Nov	13 Nov	20 Nov	27 Nov	4 Dec	11 Dec	18 Dec
Solutions of the quizzes can be found on the webpage: http://faculty.kfupm.edu.sa/phys/aljalal/phys102.htm														
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