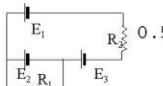
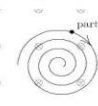


class2016			
R	Exam1	Exam2	Exam3
R00801609	68	68	84
R01026470	84	68	100
R01077393	84	84	84
R01078460	100	68	84
R01083245	100	84	100
R01096647	84	52	100
R01124126	84	52	92
R01124355	84	68	100
R01173254	100	52	100
R01177331	100	36	100
R01305105	100	36	100
R01316004	100	68	100
R01316415	68	54	84
R01320803	84	52	100
R01323060	100	52	100
R01324215	100	52	100
R01327763	84	68	100
R01328521	84	52	100
R01329410	52	52	68
R01329827	100	20	100
R01331415	100	36	100
R01331479	84	36	92
R01335317	100	20	100
R01336246	100	52	100
R01336332	100	52	100
R01337940	68	52	92
R01338810	68	52	84
R01342892	100	68	84
R01344623	84	52	92
R01347660	100	68	100
R01347712	100	68	100
R01351700	100	84	100
R01368974	68	84	100
R01369514	100	68	100
R01371352	84	68	84
R01393833	100	52	100
R01394566	100	68	100

Summer 2016. Exam 3. QQ 1-3

<p>#1. A 120-V power line is protected by a 15-A fuse. What is the maximum number of 120V, 100W light bulbs that can be operated at full brightness from this line?</p> <p>A. 12 B. 6 C. 3 D. 2 E. 4</p>	<p>#2. 4 batteries of emf 1 V and internal resistance 1 <math>\Omega</math> each in series are connected to the external resistance 4 <math>\Omega</math>. The power liberated by the external resistance is:</p> <p>1. 1 mW 2. 4 W 3. 4 kW 4. 1 W 5. None of the above</p>	<p>#3. A cylindrical copper rod has resistance R. It is reformed to one tenth its original length with no change of volume. Its new resistance is:</p> <p>A. 0.01 R B. 0.1 R C. 100 R D. 1000 R E. None of the above</p>
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Summer 2016. Exam 2. QQ 4-6

<p>#4. The circuit parameters are as follows <math>R_1=1 \Omega</math>, <math>R_2=5 \Omega</math>, and the ideal batteries of emfs <math>E_1=E_2=E_3=8 \text{ V}</math> with internal resistances 3 <math>\Omega</math> each. Find the currents through the battery <math>E_3</math>.</p> 	<p>#5. A uniform magnetic field is directed into the page. A charged particle, moving in the plane of the page, follows a clockwise spiral of decreasing radius as shown. When the spiral radius decreases twice, the particle velocity:</p> <p>A. Increases twice B. Increases four times C. Remains the same D. Decreases by the factor of 16 E. none of the above</p> 	<p>#6. An electron moves with a constant acceleration in a region where a uniform electric field of <math>5 \times 10^4 \text{ V/m}</math> makes angle <math>120^\circ</math> with a uniform magnetic field of 1 T. The electron velocity is:</p> <p>A. 5 m/s B. <math>5 \times 10^4 \text{ m/s}</math> C. 100 km/s D. 63 km/s E. Any value but 0</p>
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