Homework Questions: Section 4

Name _____

1. The table at right indicates the electric pressures in the wires on each side of a bulb. Fill in the last column. Your choices are... very bright
   bright
   medium-bright
   dim
   not lit

   NOTE: Assume all bulbs are identical.

	Wire on one side of bulb	Wire on other side of bulb	How bright is the bulb?
a.	red	green	
b.	yellow	blue	
c.	red	yellow	
d.	blue	orange	
e.	orange	green	
f.	orange	red	
g.	green	blue	
h.	red	blue	
i.	orange	yellow	
j.	green	yellow	

2. Use color-coding to determine the order of brightness of bulbs A, B, and C, shown in Figure 2.
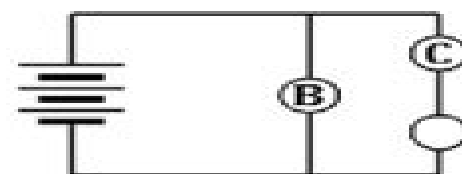
Fig. 2

BRIGHTEST _____ _____ _____ DIMMEST

3. In a circuit, CONVENTIONAL charge is always considered to flow from:

   _____ A. low pressure to high pressure

   _____ B. negative to positive

   _____ C. high pressure to low pressure

4. Color-code (or just label with the letters R/O/Y/G/B, if you want) the figures shown. The colors should indicate the electric pressure existing in each wire at the time indicated. Remember that we NEVER color-code bulbs, but that we ALWAYS color-code capacitor plates. Also, draw appropriate starbursts around any bulb that is lit, indicating the brightness of the bulb at that particular time.
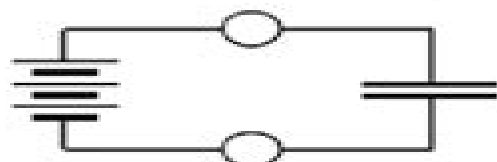
Fig. 4a
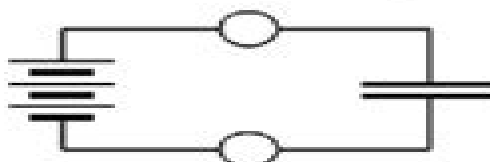capacitor uncharged;
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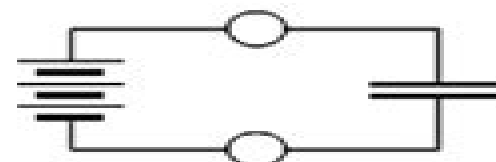
Fig. 4b
capacitor partially charged

Fig. 4c
capacitor fully charged

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Terry C. Jones

Homework Questions Section 4 Answers:

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