Current in Parallel Circuits II

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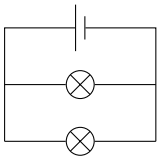
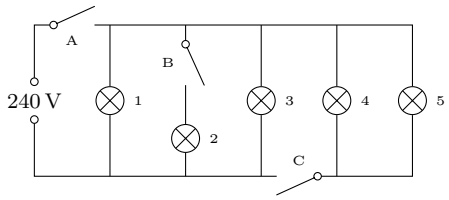
1. The following circuit shows a parallel circuit with one cell and two bulbs. Initially the lamps are at normal brightness. What is the brightness of the bulbs when the following changes are made (choose from **off**, **dimmer**, **normal**, **brighter**)?



   (a) One lamp is unscrewed.
   (b) Another cell is added.
   (c) Another bulb is put in, in parallel with the others.

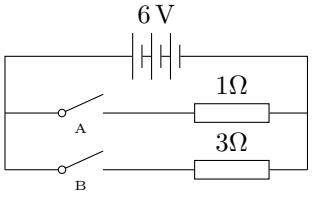
2. The following diagram shows some lamps and switches.



   Which lamps light if the following happen?

   (a) Switch A only is closed.
   (b) Switch B only is closed.
   (c) Switch C only is closed.
   (d) Switches A and B are closed.
   (e) Switches A and C are closed.

3. The diagram below shows two resistors connected in parallel.



   Use current = voltage/resistance to calculate the reading on the ammeter if

   (a) switch A is closed, switch B is open,
   (b) switch B is closed, switch A is open,
   (c) both switches A and B are closed.

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