

SS 2 PHYSICS ASSIGNMENT FOR WEEK 3

DEADLINE:

FRIDAY MAY 1ST, 2020

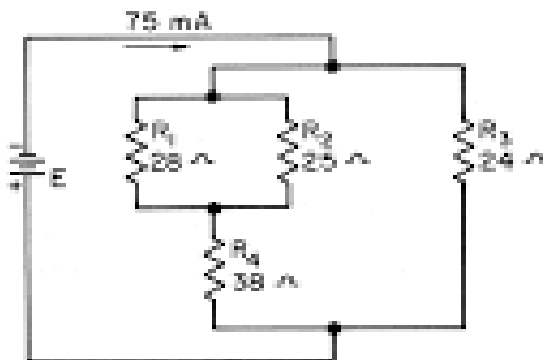
E MAIL:

physics4prince@yahoo.com (For Mr Adejobi)

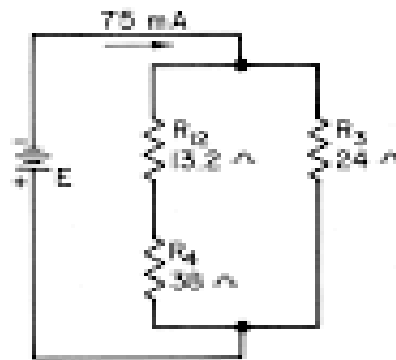
olutolamatthew@gmail.com (For Mr matthew)

SS 2 PHYSICS ASSIGNMENT 3 FOR WEEK 3

- 1
 - (a) State Ohm's law,
 - (b) List two examples each of ohmic and non-Ohmic conductors
 - (c) Find the total emf of a battery consisting of 4 cells of each having an emf of 2v, when they are connected in
 - (i) series
 - (ii) parallel
- 2 Find the total effective resistance the circuits below;



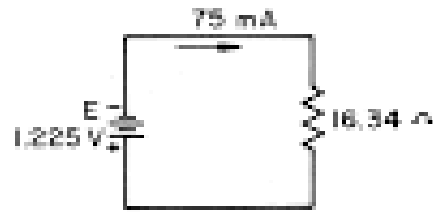
(a)



(b)

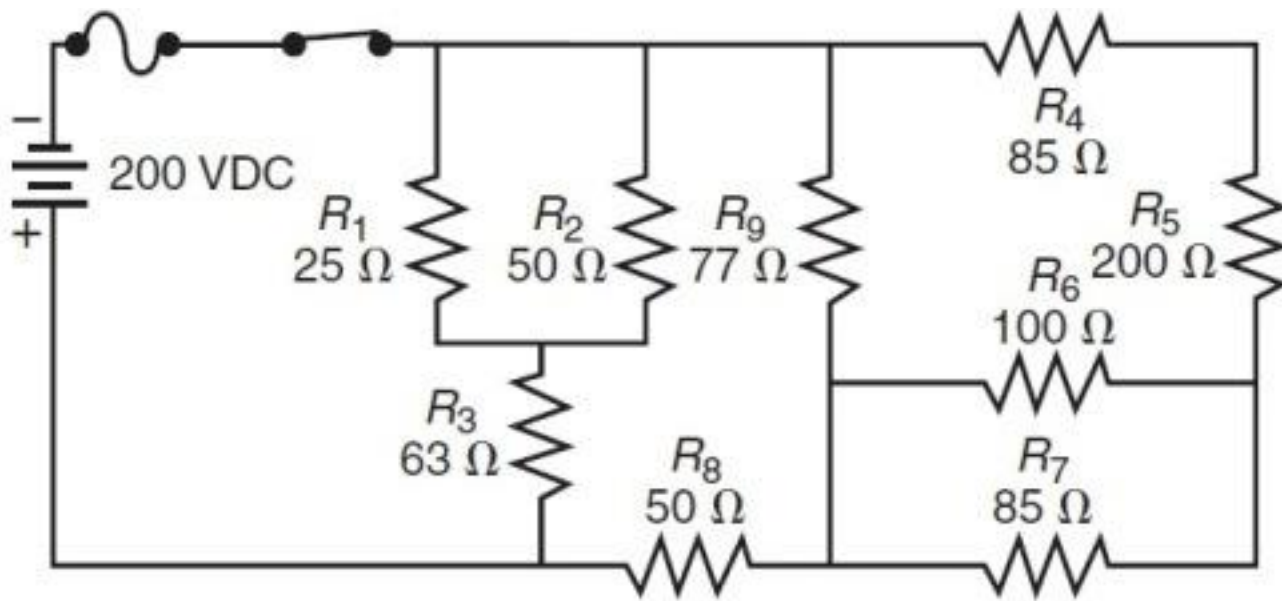


(c)



(d)

- 3 Find the total current flowing in this simple circuit below.



- 4 Two cells, each of emf of 2V and internal resistance 0.5Ω , are connected in series. They are made to supply current to a combination of these resistors; one of the resistances 2Ω is connected in series to a parallel combination of two other resistors each of resistance 3Ω .

Draw the current diagram and calculate.

- (i) Current in the circuit
- (ii) potential difference across the parallel combination of the resistor.
- (iii) Lost volts of the battery.