

XII- PHYSICS

LESSON ① and ②

LESSON:-
① → ELECTROSTATICS

LESSON
② → CURRENT
ELECTRICITY,

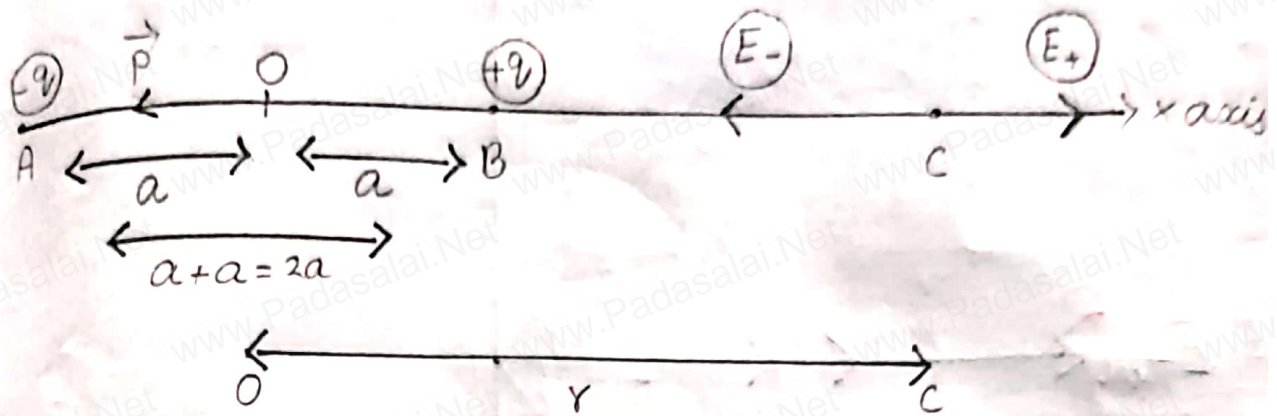
Important Diagram

Prepared by

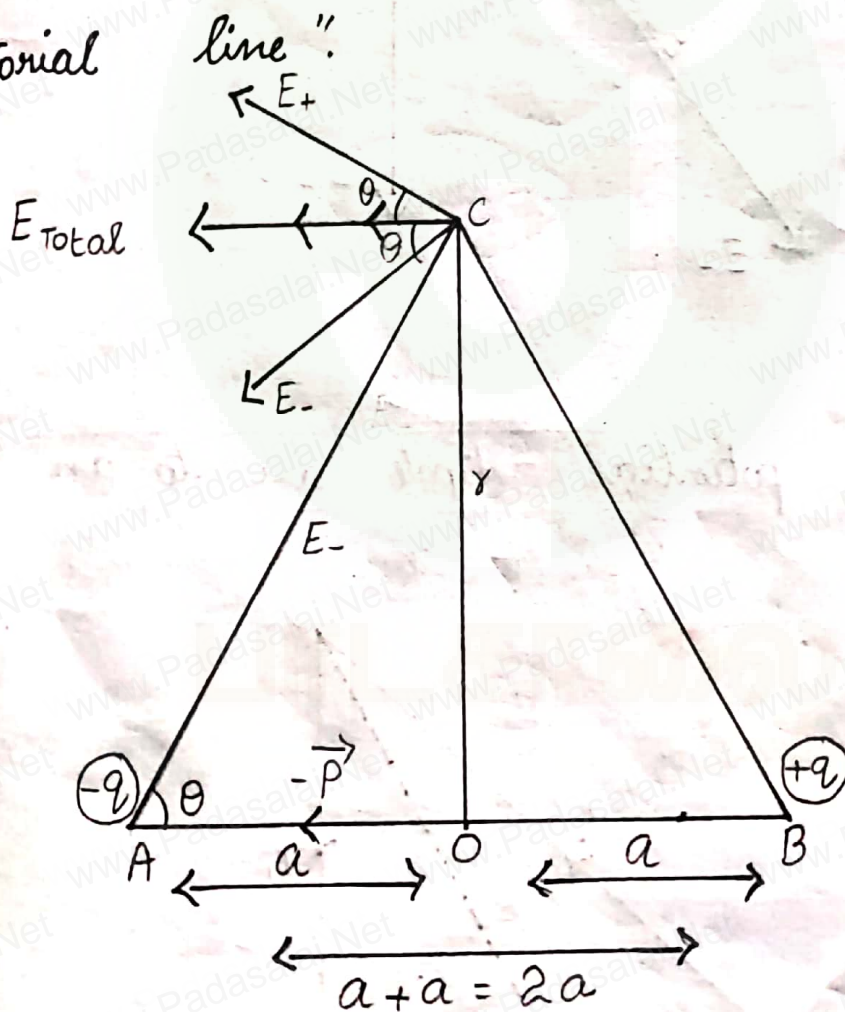
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SALEM (DT) 637101.

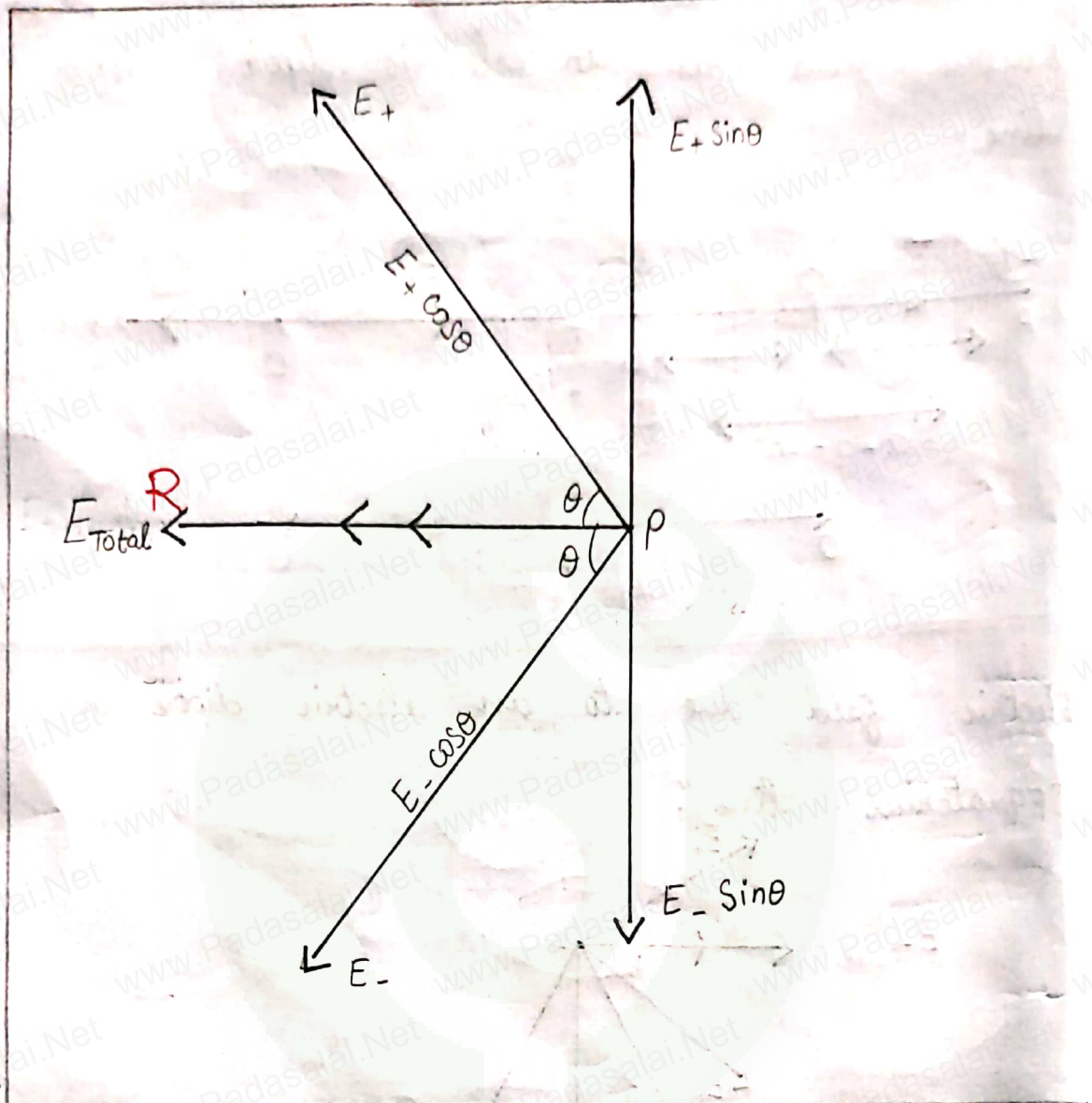
Electric field due to electric dipole in Axial line :



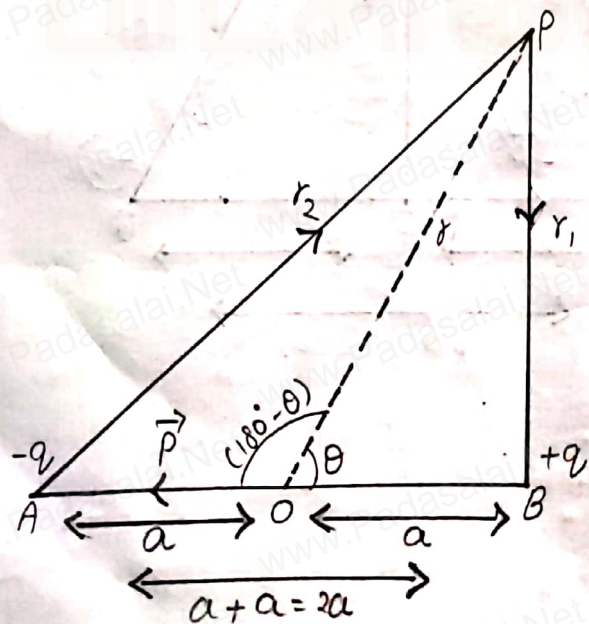
Electric field due to an electric dipole in "Equatorial line".



(2)

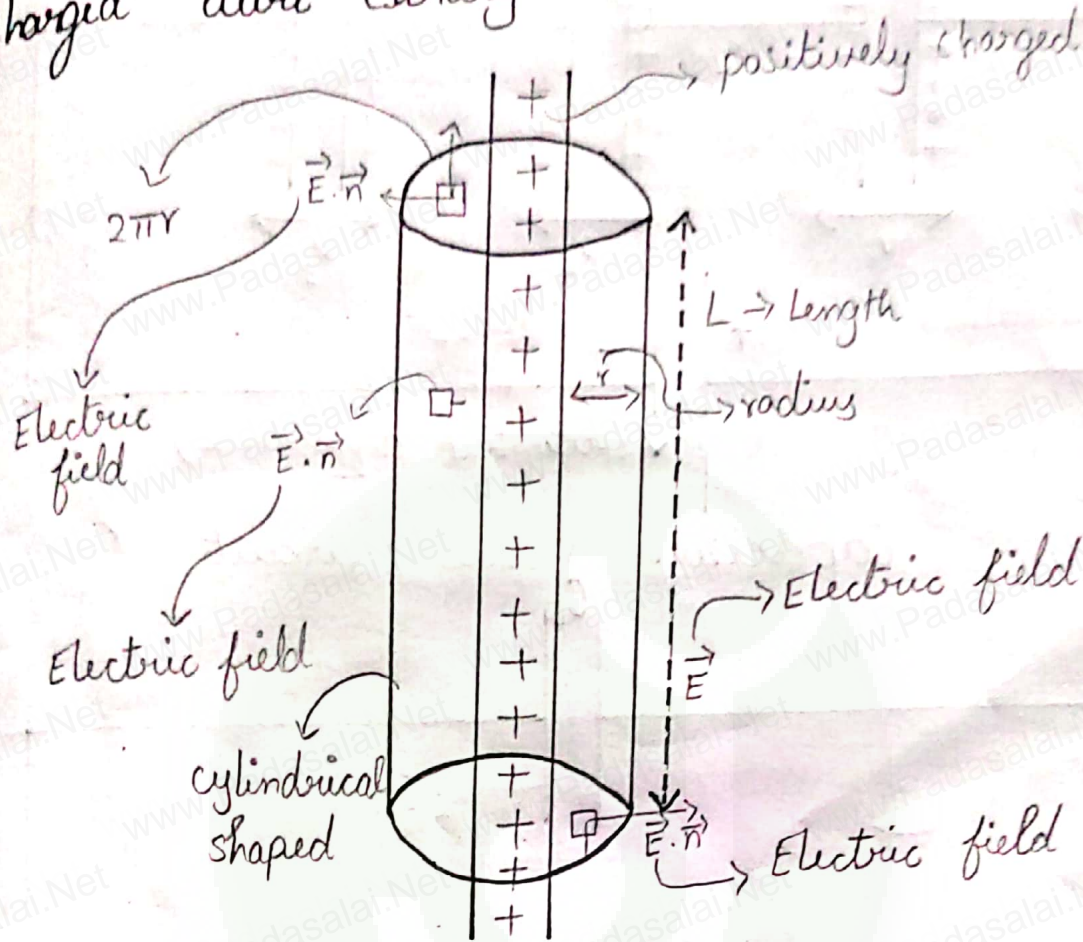


3) Electrostatic potential dipole due to an electric dipole:

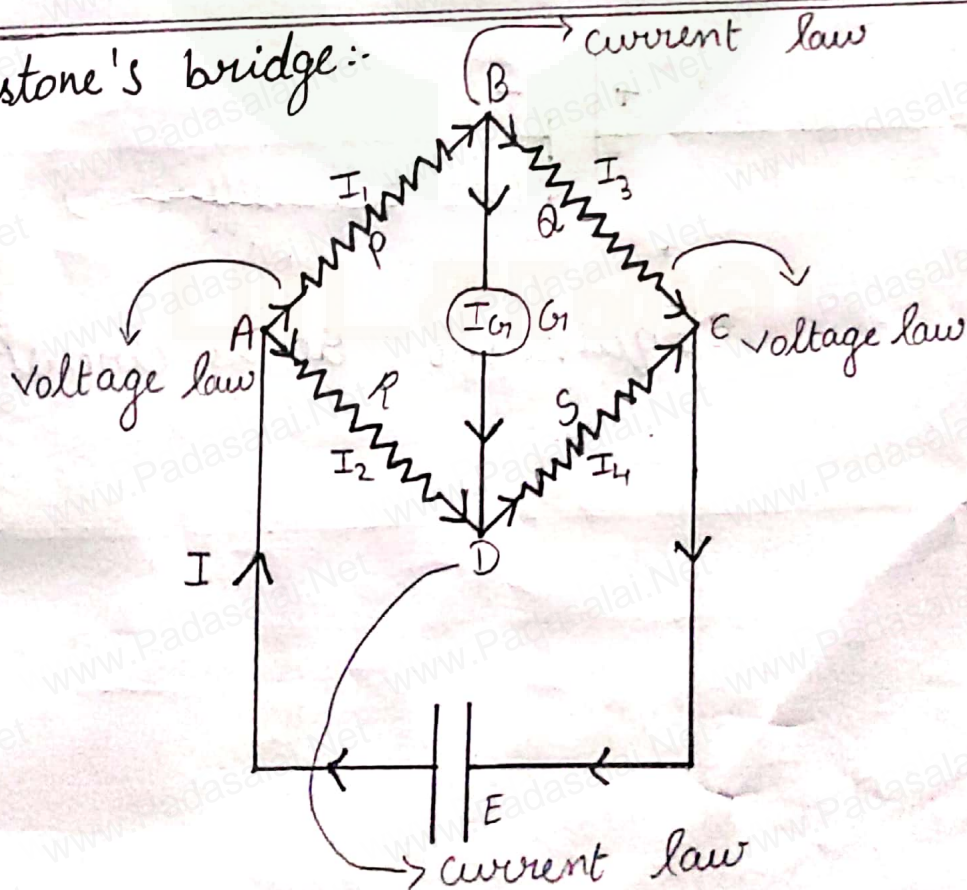


Gauss's law I application:

I. Electric field due to an infinitely charged wire (straight line):

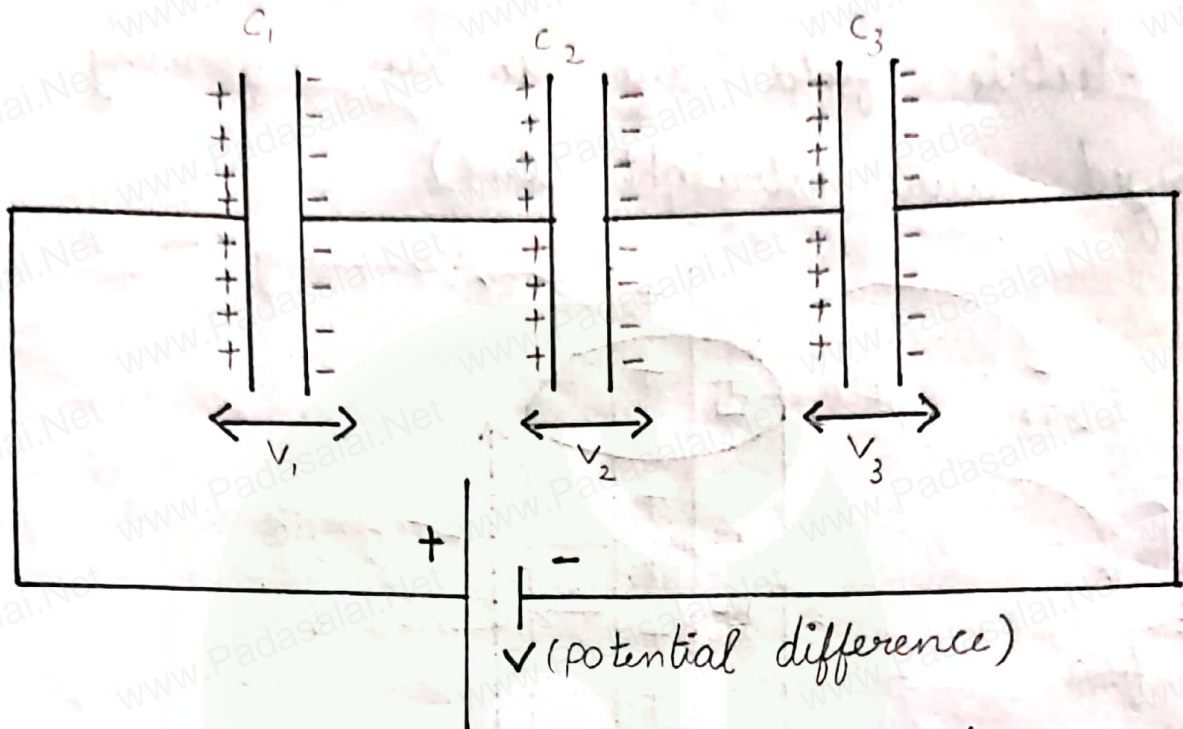


Wheatstone's bridge:

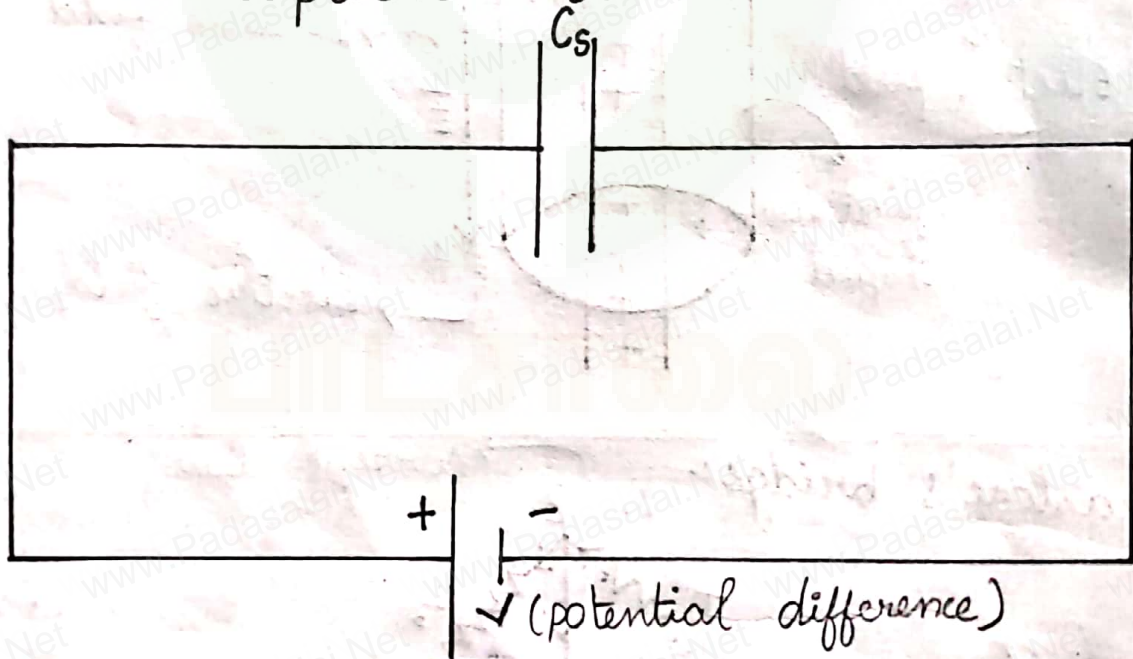


(1)

7) capacitor series connection :

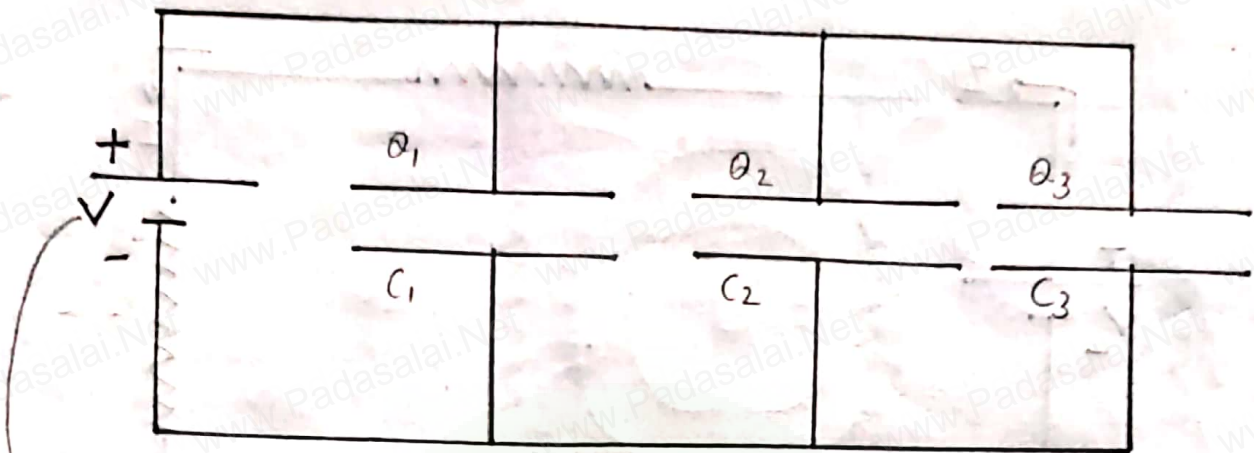


Capacitor series circuit



Equivalent series circuit

capacitor parallel connection: Padasalai



(potential difference)

parallel capacitor series



(potential difference)

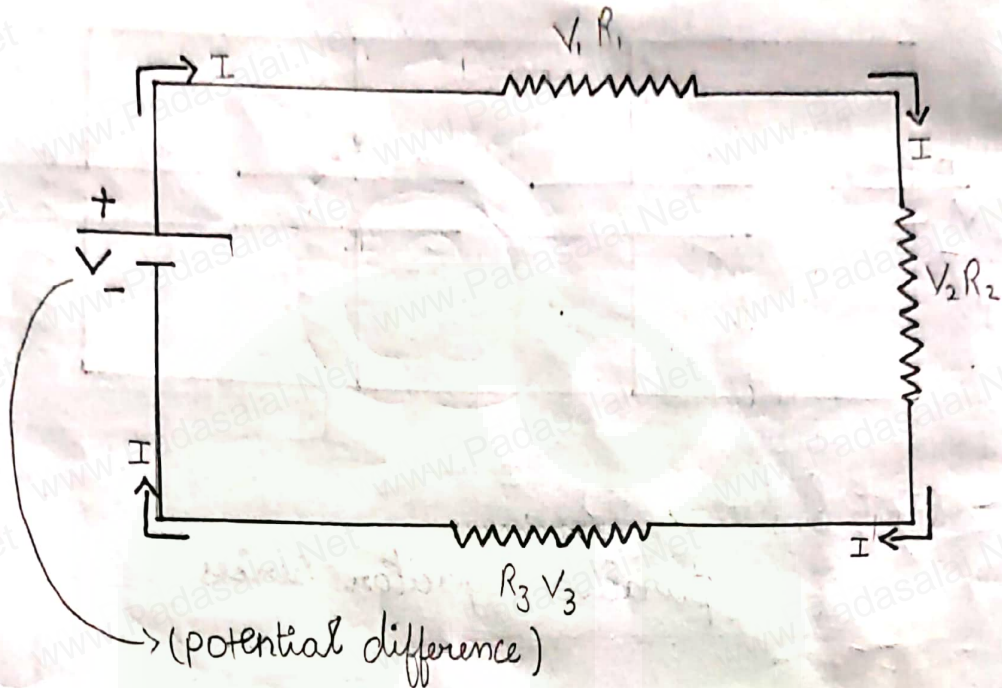
Equivalent capacitor circuit

Total Charge

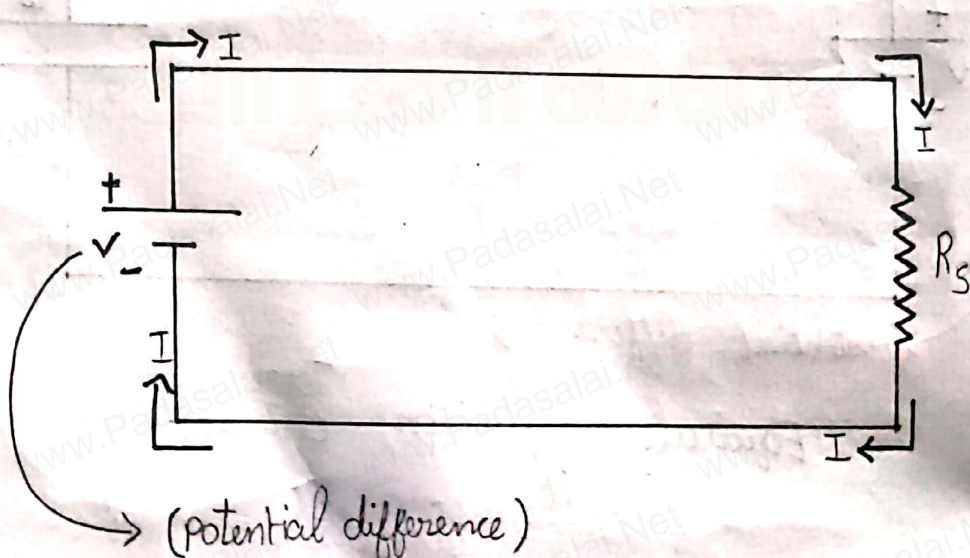
capacitor parallel

(6)

9) Resistor in Series connection ::

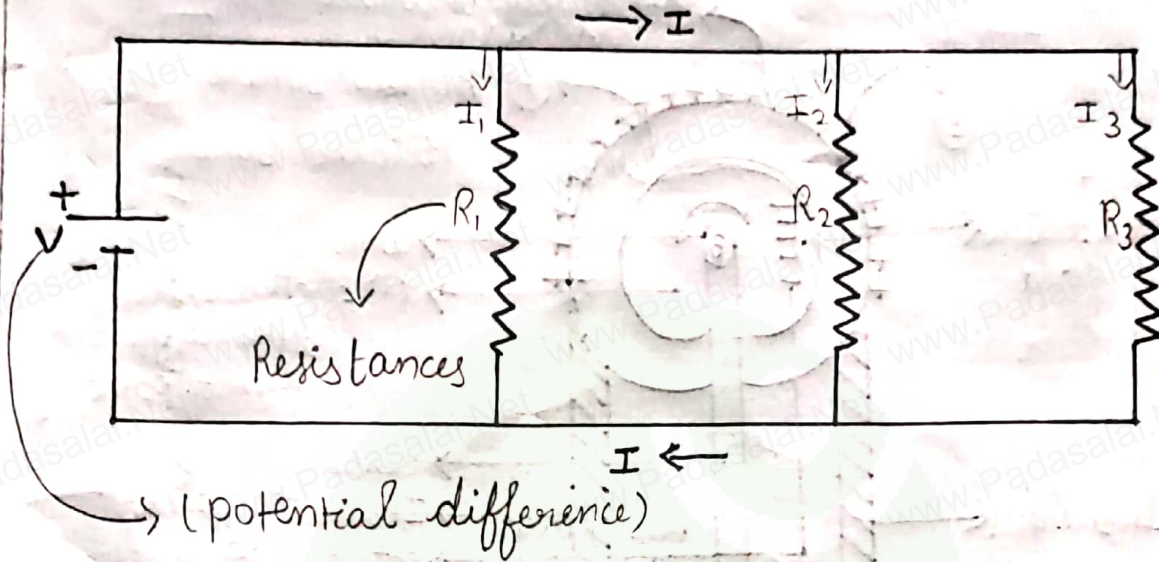


Resistor series connection
Circuit

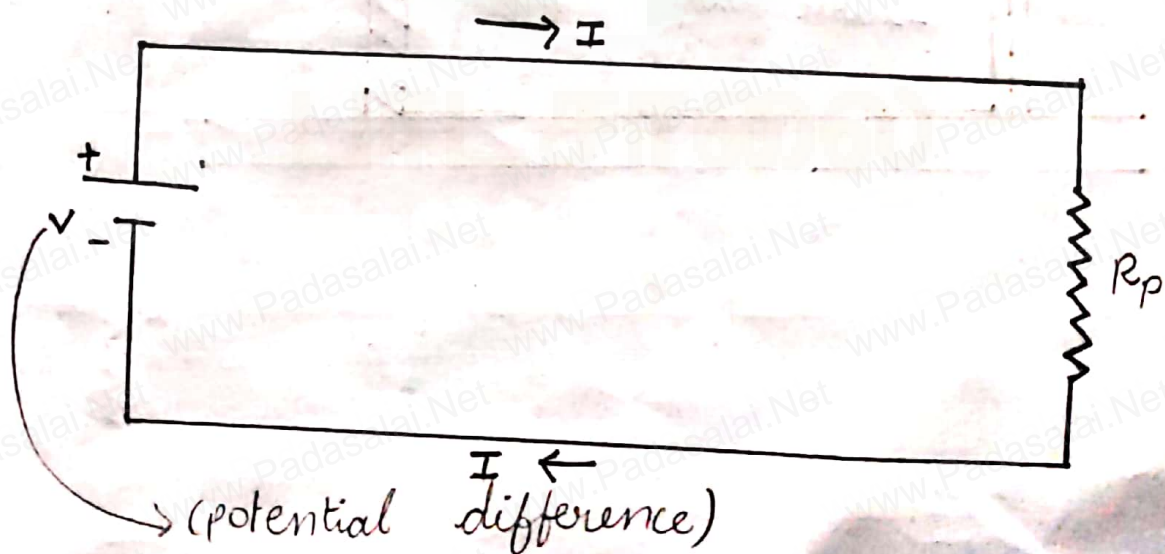


Equivalence circuit Resistor Series
connection.

1) Resistor in parallel connection::



Resistor parallel connection
current



Equivalent parallel connection.

(8)

10) Van de graff Generator ::

