

CLASS 12

PHYSICS

REVISION NOTES

Class 12 Physics Chapter 2 Electrostatic Potential and Capacitance – Revision Notes

In electrostatics, potential tells you how much work is needed to bring a charge to a point, and capacitors are simply devices built to store that energy -- this Class 12 Physics Chapter 2 summary walks through both ideas along with the series and parallel combination rules.

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Potential

$V = kq/r$ (point charge); scalar quantity.

Equipotential surfaces: perpendicular to field lines; no work done moving charge along them.

$E = -dV/dr$.

Capacitors

$C = Q/V$; parallel plate: $C = \epsilon_0 A/d$ (vacuum), $K\epsilon_0 A/d$ (dielectric).

Series: $1/C = 1/C_1 + 1/C_2 + \dots$; Parallel: $C = C_1 + C_2 + \dots$

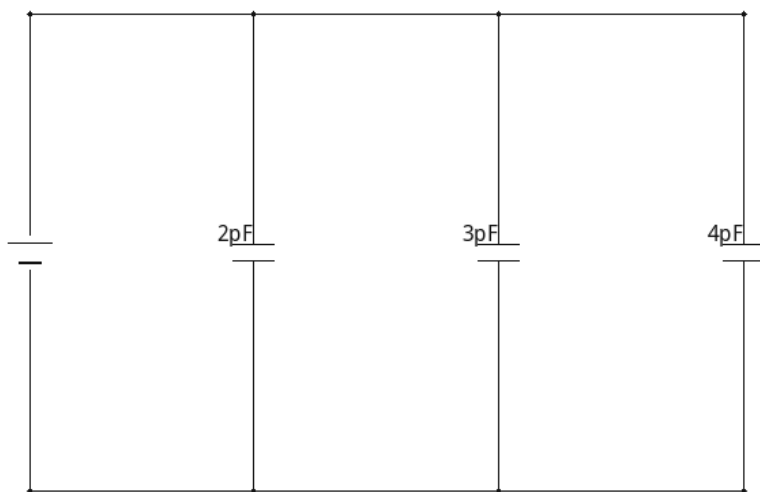
Energy: $U = \frac{1}{2} CV^2 = Q^2/2C$.

One-Line Summary

Electric potential is the scalar potential energy per unit charge; capacitors store charge and energy, with capacitance boosted by dielectrics and combined via series/parallel rules.

Quick visual: a worked diagram from the full [Solutions](#) page, for reference.





Three capacitors (2pF, 3pF, 4pF) in parallel across a 100V supply.

Class 12 Physics Chapter 2 – Solutions and Important Questions

Need full answers or more practice? See the [Class 12 Physics Chapter 2 Solutions](#) and [Class 12 Physics Chapter 2 Extra Questions](#).

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