



• LIVE

| SURI SIR |



SURI SIR IIT BOMBAY

ACCORDING TO PHYSICS...
THE GLASS IS NEVER EMPTY













Harsh Sir

Theory Class: Monday & Thursday (9pm) MCQ Class: Wednesday (8pm)



Suri Sir

Theory Class: Wednesday & Saturday (9pm) MCQ Class: Monday (8pm)



Arvind Sir

Theory Class: Tuesday & Friday (9pm) MCQ Class: Thursday (8pm)



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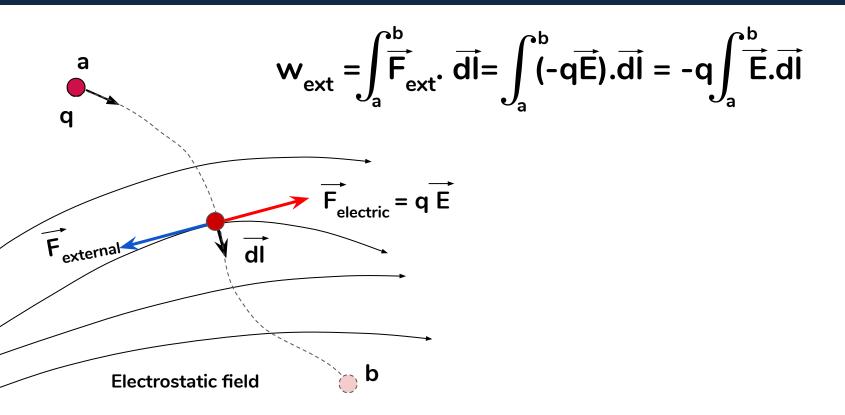




Electric potential and potential energy

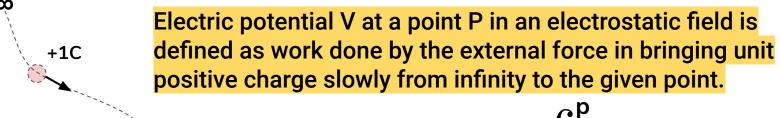
Expression for work done to move a charge in an electric field





Definition of electric potential



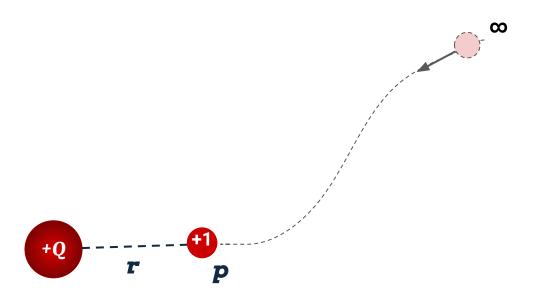


$$W_{\text{ext}} = -q \int_{\infty}^{1/p} \overrightarrow{E} \cdot \overrightarrow{d} \cdot \overrightarrow{E} \cdot \overrightarrow{d} \cdot \overrightarrow{E} \cdot \overrightarrow{d} \cdot \overrightarrow{E} \cdot \overrightarrow{d} \cdot \overrightarrow{E} \cdot$$

$$V = \frac{W_{\text{ext}}}{q} = -\int_{\infty}^{p} \overrightarrow{E.dI}$$

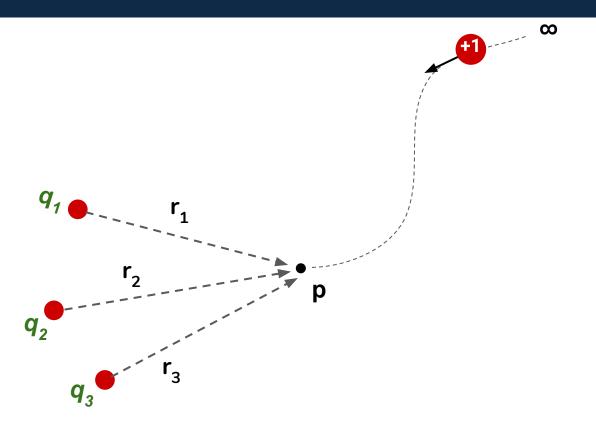
Potential of a point charge





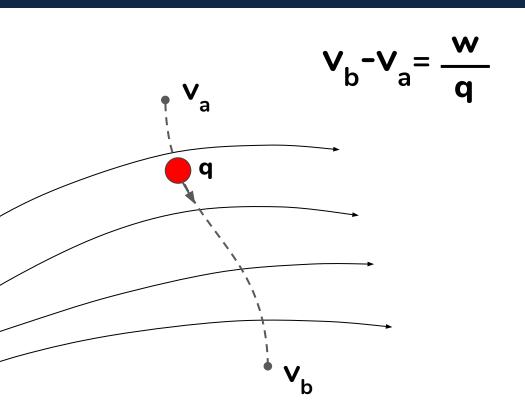
Potential due to system of charges





Potential difference





Potential energy

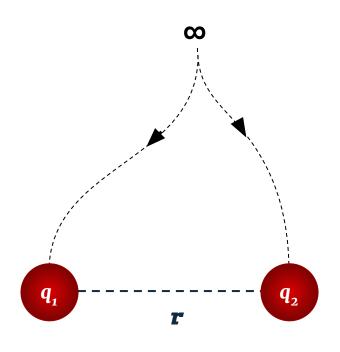


Potential energy is nothing but the energy stored in a charged particle due to work done on it by the external force in bringing it slowly from infinity (reference point) to the given point. It is similar to gravitational potential energy

$$U = W_{ext} = qV$$

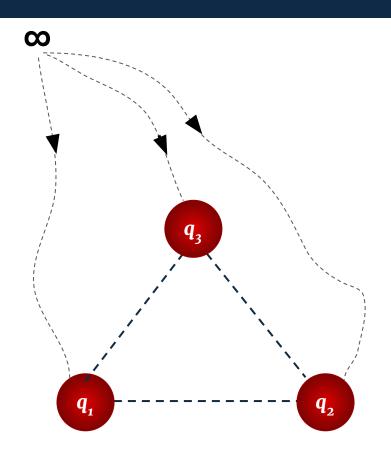
Potential energy of two charges put together





Potential energy of system of three charges





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Assignments

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Notes

Daily Update













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