

PHY 101

Written by MS Rehman

★ Prefix mega = 10^6

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★ The Centripetal force is perpendicular to the velocity.

So if an Object moves in a circle at constant speed. The work done by the Centripetal force is zero.

★ What is flux in Physics

Ans: The word "flux" has many meanings but in Physics flux is the "rate of flow" of some quantity through an area. The thing "flowing" could be a fluid (like air or water), some form of energy (like heat, light or radio waves), or a field (gravitational, electric, or magnetic). In the case of fields, however, the idea of "flow" is more poetic than literal.

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* Static Friction

: The Friction that exists between two surfaces that are not moving relative to each other.

* ~~Stat~~ Kinetic Friction:

: The Friction that exists between two surfaces that are moving relative to each other.

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	Factor	Prefix	Symbol
*	10^9	Giga	G
	10^6	mega	M
	10^3	kilo	k
	10^{-2}	centi	c
	10^{-3}	mili	m
	10^{-6}	micro	μ
	10^{-9}	nano	n
	10^{-12}	Pico	p

←—————→
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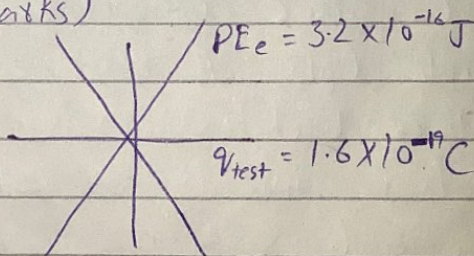
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Jmp Question

★ Can we consider mass as a weight & weight as a mass.

★ Explain why no work done on a planet as it moves in a circular Orbit around the Sun. Even though a gravitational force is acting on a planet. (3 Marks)

★ What is the Electric Potential of the test charge as shown in the figure. (3 Marks)



★ Kinetic Energy formulae

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★ What is the net work done on planet during each revolution as it moves around the Sun is an elliptical orbit?

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★ Do you agree or not that stationary charges or steady currents can produce electromagnetic waves. Explain your point of view.

★ Consider Compton scattering with visible light. A photon with wavelength scatters backward ($\theta = 180^\circ$) from a free electron initially at rest. What is the fractional shift in wavelength $\Delta\lambda/\lambda$ for the photon.

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