20/3/02/7 Lighting rods are taller Lightning rods are always taller than the buildings, because in case a glash of lightning comes near, it es directed to rod and grounded rather than flowing en the building. Thus it protects buildings from severe affects of lightning ano:05 Electric field points away -? In case of proton, field lines are considered to be moving away from proton. while for electron, lines more towards charges Direction of electric field vector is actually the direction of electric field lines Hence E points away from proton

	2013/02/4	
	Qno:1	
	Charge transferred by ē	
	Since protons are tightly	
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SATISFA	are not free to move.	
	But electrons revolve around	
	nucleus and can nove	
	from one level to other.	mage and one and amountaining to the contract of the second of the contract of
	That's why they are termed	
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	Qno:6	and Aller China was a second and
	Find voltage	ty ^d echnologicalmusched formation minimization and differen
	q = 0.0001C	
	$E = W = 0.3125 \times 10^{19} eV$	N No. of the state
	(: /ev = 1.602 × 10-19 J)	
assaulidaksis ili iliyaparinen rikyrenteristiin vahrassi kurr	Hence $E = W = 0.50J$	en resident en
	: v = W/9	
annaga-katapa ang at ika makamatan ang at	v = 0.50/0.0001	oliver half decised not have a subsequent solution of the control
	->V = 5000 V	Philippen column Marcha processing restriction against the
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Find net charge

QA = 2.5 × 10°C

98 = -2.5 × 10-1C

net charge Q = QA + QB= $(2.5 \times 10^{-1}) + (-2.5 \times 10^{-1})$

 $\rightarrow \varphi = 0 C$

dipole moment

distance b/w gA and gB

d = 0.15 + 0.15 = 0.3m

Electric dipale moment (p) = QAXd

 $= 2.5 \times 10^{-7} \times 0.3$

= 7.5 x 10°8 (m (along positive 3-ancis)

ano:03

Find intensity

$$\vec{E} = 2$$

$$\vec{F} = 13\hat{i} + 9\hat{j} N$$

$$\vec{F} = 1(13)^2 + (9)^2 = 169 + 81$$

directeon of E(0) = tan'(F8)

26/3/02/7 ano:8 -> Symmetry It is physical or mathematical feature of system that is preserved or changed under transformation It means that one shape is exactly like the other when moved, flipped etc Spherical ?-A sphere has rotational Symmetry around an areis through centre and reflection symmetry across any plane. planar E-It is symmetry of pattern that is transformation of plane that carries any underectional lines to lines and preserved many distances

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