H w for Class - 12A Date 29/5/2020

Physics

1. Draw graph showing variation of electric field with distance for a uniformly charged metallic sphere.

2. An electron and proton are free to move in an electric field. Which one will have greater acceleration? Why?

3. Sketch two equipotential surfaces for (a) a point charge. (b) between two plane sheets of charge.

4. Show that the work done in rotating an electric dipole of dipole moment p in a uniform electric field E by an angle  $\theta$  from the equilibrium postition W = PE(1-cos  $\theta$ )

5. The given graph shows the variation of charge 'q' verses potential difference for two capacitors C1 and C2. The capacitors have same plate separation, but the plate area of C2 is double that of C1. Identify the line in the graph corresponding to C1 & C2 and why?

## class 12th (mathe) H.w for 29/05/20 and 30/05/2020

0	94	An	T I	0	1	Then show that 13A1= 271A1
			0	F-	2	,
			0	0	4	

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(2) Evaluate the dest-enminants

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th	3	-1	-2	613	3	-4	5	(III)	0	I.	2
	D	0	-1		1	1 *	-2		-1	0	-3
	3	-5	0		2	3	1		-2_	3	0

Show that	9	6	C	
	a+2×	6+24	C+2Z	= 0
	~	7	2	

4)	prove	that	0	946	Q+6+C	100	
			29	30+25	49+36+26	=	a
			30	6a+3b	10a+66+3C		

(2) show that the stelection R in Roletimed as R=S(a,b): aSb3, L& stepperime and transitive but not symmetric:

( prove that Simplif cardinate, tanin + continent

37 a matrix has 18 elements, what are possible orders it can have? what, if it has 5 elements. Using the property of determinant and without

2	ne	9	nea	(m)	Q-5	b-C	C-01	
	y	5	7+5	<b>FO</b>	b-c	C-q	arb.	= 0
	2	C	Z+C		Ca	a-b	b-C	

Note student salve to more such as question