1	SPH202! ELECTRICITY & MAGNETISM II	
1	TUTORIAL T NUTO IN LOCAL DE	1
	TUTORIALI DUE: 10/03/2020 AT 3PM	2
1.	A disk of radius oilm is oriented with	
	unit box no electric hold = at 30° to a	
	200 2XIO3 N/C.	
رص	A disk of radius oilm is oriented with its normal unit vector h at 30° to a uniform electric field E' of magnitude 200 200 200 100 M/C. What is the electric plux through the disk?	
T cb	What is the fly through the dick is it	
	What is the flux through the disk if it is turned, so that is is perpendicular to	
.()	E'Z	4 3 2
(5)	What is the flux through the disse is in is parallel to E?	
2.	A point charge 9=3µG is surrounded by	
	Contoved on the classes Gird 4.	
	A point charge 9=3µG is surrounded by on imaginary sphere of radius r=0.2m centered or the charge. Find the resulting electric flux through the sphere.	
	A sphericall shell or radius R=2.	
3'	how its center at the origin and carries	
	9 surface charge den 1.7. (1) = 3-01-2	
	A point charge (9) = 250 nC is an the	
	y-axis at y=2cm. Find the electric field on the oc-axis at	
(á)	x=2cm, and	
<u>(d)</u>	x=4cm.	
4.	The Figure below Charle M as al	
	partides. The charges are 2 = 1.6xio C.	
	The Figure below shows three charged partides. The charges are 2 = 1.6xio ¹⁹ C, 2 = 3.2xio ¹⁹ C, and 2 = -3.2xio ⁻¹⁹ C.	
	What is the not electrostation correct	
	What is the net electrostatic force on particle 1 due to particles 2 and 3?	
	Where R=0.02m.	-
710		

