Example: A uni point charge. I insulator.	iformly positively charged insulator Describe any force that might be ex	is brought near a positive perienced by the	
Example: A dip	oole is located in a uniform electric f	ïeld.	1
a) Illustrate the potential energ	orientation of the dipole that will re	sult in the maximum	
torque.	orientation of the dipole that will re		
c) Illustrate the	orientation of the dipole that will re	sult in the maximum force.	·
Example: $q_3 =$	2C is constrained to move along th	e x -axis. $q_1 = 3C$ at	1
(2cm, 2cm) and there an equilit	$dq_2 = -5C$ at $(-4cm, 2cm)$ are held	I fixed. In which region, is	
	= -5C q ₁ =	= 3C	
42	71	?	
		 	
	x = 0		
Region A	Region B	Region C	
	•		

Example: A pair of charges have an energy U_0 . The distance between the charges is doubled. What is the energy of the modified arrangement?	
Example: A charge experiences a force F_0 due to another nearby charge.	1
Example: A charge experiences a force F_0 due to another nearby charge. The charge is moved so that it now experiences a force $2F_0$ due to the nearby charge. What must have happened when the charge was moved?	