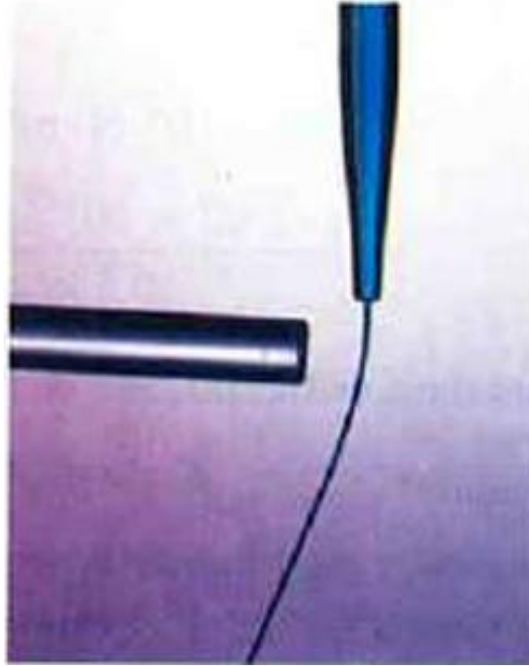


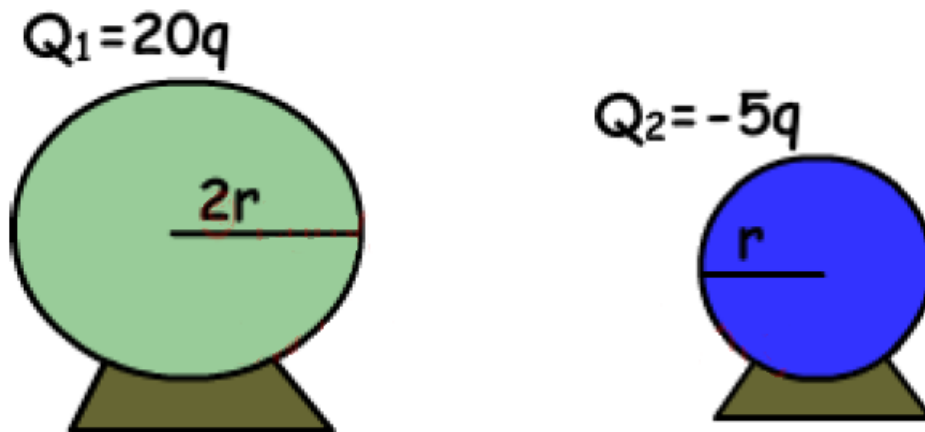
Problem Set 9

Physics, summer 2020/21

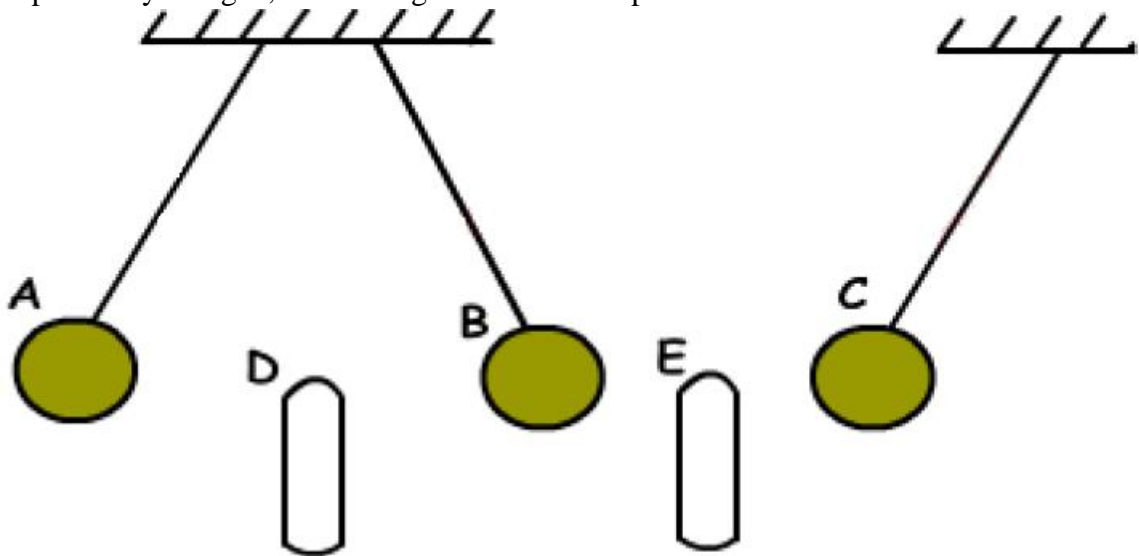
- 1) (1p.) Can you explain the attraction of water to the charged rod in the figure below?



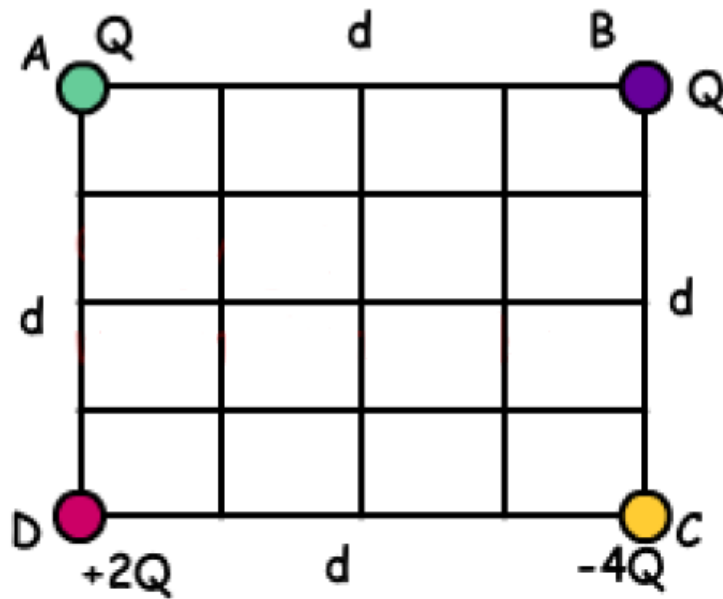
- 2) (2p.) What force does the electric field found in the previous example exert on a point charge of $-0.250\mu\text{C}$?
- 3) (2p.) If we touch two spheres to each other, find the final charges of the spheres.



- 4) (2p.) Charged spheres A, B and C behave like this under the effect of charged rod D and E. If C is positively charged, find the signs of the other spheres and rods.



- 5) (3p.) If force applied by charge placed at point B on A is F , find forces applied by charges C and D on A in terms of F .



Sylwia Majchrowska
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