

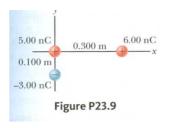
Department of Physics National Dong Hwa University, 1, Sec. 2, Da Hsueh Rd., Shou-Feng, Hualien, 974, Taiwan **General Physics II, Quiz 6** PHYS10000AA, Class year 99 3-10-2011

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Chapter 23-24, Serway; ABSOLUTELY NO CHEATING!

Please write the answers on the blank space or on the back of this paper to save resources.

1. Three point charges are arranged as shown in figure P23.9. Find (a) the magnitude and (b) the direction of the electric force on the particle at the origin.



2. Four charged particles are at the corners of a square of side a as shown in Figure P23.25. Determine (a) the electric field at the location of charge q and (b) the total electric force exerted on q.

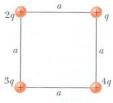


Figure P23.25

3. A uniformly charged insulating rod of length 14.0cm is bent into the shape of a semicircle as shown in figure P23.35. The rod has a total charge of -7.50µC. Find (a) the magnitude and (b) the direction of the electric field at O, the center of the semicircle.



Figure P23.35