

General Physics 2 (PHYS 111) Quiz (1)

Name	
Student's ID	

1- A 2.00 nC charge placed at the origin and a -3.00 nC charge placed 1 m to the right of it. What is the resultant electric field on point P 2 m from the origin?

- A. 27 N/C to the right
- B. 27 N/C to the left
- C. 22.5 to the right
- D. 22.5 to the left

2- The energy delivered from 12.0 V motorcycle battery that can move 5000 C of charge is:

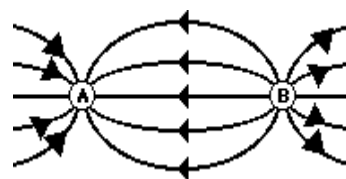
- A. 600 J
- B. 6×10^4 J
- C. 400 J
- D. 4×10^4 J

3- The electric force between two charges $q_1 = 40 \mu\text{C}$, and $q_2 = 50 \mu\text{C}$ is 2 N, the expected distance between them is:

- A. 3.0 m
- B. 0.036 m
- C. 10.0 m
- D. 0.5 m

4- Consider the electric field lines shown in the diagram below. From the diagram, it is apparent that object A is ____ and object B is ____.

- A. +, +
- B. -, -
- C. +, -
- D. -, +



5- When an electric field moves a positive charge toward the electric field, the electric potential energy of the positive charge -----

- A. Increase
- B. Decrease
- C. Does not change
- D. Will be zero