I Assignment View I

#### PH2200 University Physics II Electricity & Magnetism

Homework 1 - Chapter 26 (22 points)

Due at 11:00pm on Thursday, January 22, 2009

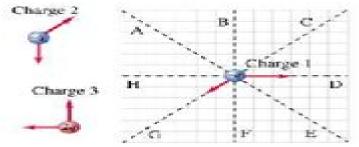
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#### Placing Charges Conceptual Question

Below are free-body diagrams for three electric charges that lie in the same plane. Their relative positions are unknown.

Proof. A.

Along which of the lines (A to H) in the figure should charge 2 be placed so that the free-body diagrams of charge 1 and charge 2 are consistent?



#### Hint A.1 Hewte approach the problem.

Newton's 3rd law states that the forces exerted by a pair of objects on each other are always equal in magnitude and opposite in direction. Identifying the forces that correspond to 3rd-law pairs in the free-body diagrams will enable you to place the particles in their proper relative position.

#### Hint A.2 Placing charge 2

The two forces acting on charge 2 correspond to the forces exerted on it by charge 1 and charge 3. This means that one of these forces must pair with a force on charge 1 of equal magnitude and opposite direction and the other must pair with a force on charge 3 of equal magnitude and opposite direction. Also note that charge 2 should be repelled by charge 1, since both are negative. Therefore, the vector that represents the force of charge 1 on charge 2 must point away from charge 1. This information is all you need to place charge 2 in its correct position.

ANSWER: C

Post B

Along which of the lines (A to H) in the figure should charge 3 be placed so that the free-body diagrams of charge 1, charge 2, and charge 3 are consistent?

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**Thomas Griffiths** 

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