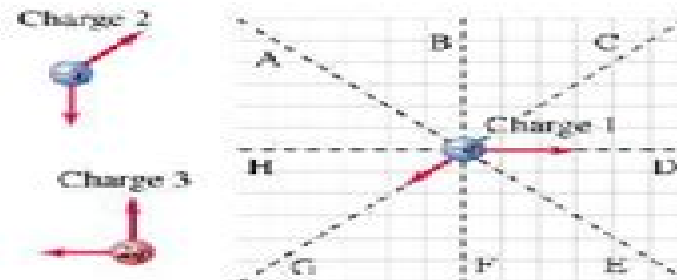


[Assignment View 1](#)**PH2200 University Physics II Electricity & Magnetism****Homework 1 - Chapter 26 (22 points)****Due at 11:00pm on Thursday, January 22, 2009**[View Grading Details](#)**Placing Charges Conceptual Question**

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

Part 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 How to 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

Part 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?



Mastering Physics 1 Solution Manual

**Hugh D Young, Roger A
Freedman, Ragbir Bhathal**



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Key Topics: INTRODUCTION, MEASUREMENT, ESTIMATING, DESCRIBING MOTION, KINEMATICS IN ONE DIMENSION, KINEMATICS IN TWO OR THREE DIMENSIONS, VECTORS, DYNAMICS, NEWTON'S LAWS OF MOTION, USING NEWTON'S LAWS, FRICTION, CIRCULAR MOTION, DRAG FORCES, GRAVITATION AND NEWTON'S LAW OF GRAVITATION, SYNTHESIS WORK AND ENERGY, CONSERVATION OF ENERGY, LINEAR MOMENTUM, ROTATIONAL MOTION, ANGULAR MOMENTUM, GENERAL ROTATION, STATIC EQUILIBRIUM, ELASTICITY AND FRACTURE, FLUIDS, OSCILLATIONS, WAVE MOTION, SOUND, TEMPERATURE, THERMAL EXPANSION AND THE IDEAL GAS LAW, KINETIC THEORY OF GASES, HEAT AND THE FIRST LAW OF THERMODYNAMICS, SECOND LAW OF THERMODYNAMICS, ELECTRIC CHARGE AND ELECTRIC FIELD, GAUSS'S LAW, ELECTRIC POTENTIAL, CAPACITANCE, DIELECTRICS, ELECTRIC ENERGY STORAGE, ELECTRIC CURRENTS AND RESISTANCE, DC CIRCUITS, MAGNETISM, SOURCES OF MAGNETIC FIELD, ELECTROMAGNETIC INDUCTION AND FARADAY'S LAW, INDUCTANCE, ELECTROMAGNETIC OSCILLATIONS AND AC CIRCUITS, MAXWELL'S EQUATIONS AND ELECTROMAGNETIC WAVES, LIGHT, REFLECTION AND REFRACTION, LENSES AND OPTICAL INSTRUMENTS, THE WAVE NATURE OF LIGHT, INTERFERENCE, DIFFRACTION AND POLARIZATION, SPECIAL THEORY OF RELATIVITY, EARLY QUANTUM THEORY AND MODELS OF THE ATOM, QUANTUM MECHANICS, QUANTUM MECHANICS OF ATOMS, MOLECULES AND SOLIDS, NUCLEAR PHYSICS AND RADIOACTIVITY, NUCLEAR ENERGY, EFFECTS AND USES OF RADIATION, ELEMENTARY PARTICLES, ASTROPHYSICS AND COSMOLOGY.

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