1. What is a field? What information is communicated when one speaks of a gravitational field or electric field?
2. a. What must an object have to create a gravitational field?
b. What must an object have to create an electric field?
3. a. What types of objects are affected by a gravitational field, and what effect(s) does the field have on them?
b. What types of objects are affected by an electric field, and what effect(s) does the field have on them?
4. a. At a given place in a gravitational field (for example, near the surface of the earth), are all objects acted on with the same gravitational force? If not, what other factor(s) determine the magnitude of the force? Explain.
b. At a given place in an electric field (for example, near the surface of a charged Van de Graaff generator), are all objects acted on with the same force? If not, what other factor(s) determine the magnitude of the force? Explain.
5. a. Describe the dependence of gravitational field strength on i. the mass of the field-creating object.
ii. the distance from the field-creating object.
b. Describe the dependence of electric field strength near a spherical charge on i. the charge of the field-creating object.
ii. the distance from the field-creating object.
