- 1. A particle (charge = $40~\mu C$) moves directly toward a second particle (charge = $80~\mu C$) which is held in a fixed position. At an instant when the distance between the two particles is $2.0~\mathrm{m}$, the kinetic energy of the moving particle is $16~\mathrm{J}$. Determine the distance separating the two particles when the moving particle is momentarily stopped.
- 2. N/A
- 3. Consider a uniform electric field E oriented in the x direction in empty space. A cube of edge length l, is placed in the field, oriented as shown. Find the net electric flux through the surface of the cube.