CH24 Physlet Physics – Gauss Law

The username and password for the applet will be given in class.

Problems

• Set up homework problem #1 ...

• Problem 24.12: Spherical charge distribution with Gauss's law.

Explorations

• Exploration 24.4: Application of Gauss's Law.
  In addition to answering the questions on the applet,

• Plot, using Excel, $|E|$ vs $r$ for each of the two configurations ($r$ is on the “x” axis).
  Do so by measuring the E field at ~5 different distances and plot these data points in Excel.
  Find the dependence of $|E|$ on the radius $r$ – is it linear, quadratic …?
  [add a trendline of type “power-law” to find that exponent]