# Gauss' Law

1. The electric flux through a Gaussian surface is 565 N $m^2$ $C^{-1}$. Find the enclosed charge.

# Gauss' Law with a spherical conductor

2. A conducting sphere (R = 5 m) has an net charge of 10 nC. Calculate the E field:
   a. Inside of the sphere (r < R)
   b. Outside of the sphere (r > R)
   c. Sketch a plot of E vs. r