proprep

Workbook

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Electrostatic Pressure

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Questions

1) Calculate the electrostatic pressure on a spherical shell of radius R, with a charge density σ.

2) A point charge q is at the center of a charged, flexible spherical shell, of uniform charge density σ. What size must the charge q be in order for the spherical shell to stay in its original form? Hint: all the charges on each section of the shell apply electrostatic pressure to each point on the surface.

*For the solution go see the videos