

# Workbook



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# Electrostatic Pressure

## Electrostatic Pressure

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### Questions

- 1) Calculate the electrostatic pressure on a spherical shell of radius  $R$ , with a charge density  $\sigma$ .
- 2) A point charge  $q$  is at the center of a charged, flexible spherical shell, of uniform charge density  $\sigma$ . 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