

Determine the equipotential surface of an infinite plane with charge density  $\sigma$ 

## Exercise 2

Obtain an expression for the energy of a spherical capacitor of radii  $\,R_1$  and  $\,R_2$  containing charges  $\,\pm Q$  .

[Ans. 
$$\left(Q^2/8\pi\epsilon_0\right)\left[1/R_1-1/R_2\right]$$
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